# The Mining Journal

PORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 668 .-- Vol. XVIII.

LONDON, SATURDAY, JUNE 10, 1848.

[PRICE 6D.

Stannaries of Cornwall-In the Bice-Bliarven's Court.

URSUANT to a DECREE of the VICE - WARDEN'S
OORT, made in the came of TYACKE and OTHERS c. TEAGUE and ANOTHER
GREDITORS in respect of WHEAL ANN MINE, is the parish of WENDRON,
in the said Stannaries, are, on or before the 15th day of June neat, to come in and
VE their DEBTS before the Registrat of the said Court, at his office, in Truro 1 or COURT, made in the came of 11 AVA.

GREDITORS in respect of WHEAL ANN MIL

in the said Stannaries, are, on or before the 15t

OVE their DEBT'S before the Registrar of the said

cleant thereof, they will be excluded the said De
odded Registrar's Office, Truro, May 30, 1849.

Stannar'es of Cornwall-In the Vice-Warben's Court. DURSUANT to a DECREE of the VICE-WARDEN'S COURT, mads in the consolidated causes of COUMBE v. BICK, BURGESS s. LDERSON, the CREDITORS in respect of ROCKS CONSOLIDATED TIN MINES, in the parishes of ROCHE and SAINT AUSTELL, within the said Shannaries, are, on or clove the 20th day of June inst, to come in and PROVE their DEBTS before the Resistrar of the said Court, at his office, in Truro; or, in default thereof, they will be exided the benefit of the said Decree.

J. G. CHILCOTT, Plaintiff's Solicitor, Truro.

H. S. STOKES, Plaintiff's Solicitor, Truro.

Dated Registrar's Office, Truro, June 6, 1848.

Stannaries of Cornwall—In the Vice-Warben's Court. TYACKE AND OTHERS . TEAGUE AND ANOTHER.

TYACKE AND OTHERS v. TEAGUE AND ANOTHER.

WHEREAS the VICE-WARDEN did, by an ORDER of DECREE, made in the above-mentioned cause, and bearing date the 6th 42 of May last, Order and Decree that a SALE be made of the ORES and HALVANS, and (if necessary) the ENGINES, MACHINERY, and MATERIALS upon and belonging to WENDRON, within the said Stannarts, under the direction of the Registrar of the Court, and that the proceeds of such sale should be applied by the said Registrar in the manner directed by the said Order or Decree,—Notice is hereby given, that, pursuant to the aid Order or Decree, a PUBLIC AUG-TION will be HOLDEN at WHEAL ANN MINE, abressaid, on Monday, the 19th say of June inst., and following day, at Eleven o'clock in the forchoon of each day, for SLLL-ING, either together or in lots, the under-mentioned

MINING MACHINERY AND MATERIALS—VIZ:

1 48 inch ERGINE 9 and 7 het stroke, wood beaun, 2 tolkers 95 boss.

1 48-inch ERGINE 9 and 7 het stroke, wood beaun, 2 tolkers 95 boss.

1 48-inch ERGINE 9 and 7 het stroke, wood beaun, 2 tolkers 95 boss.

1 48-inch Ergine 7, 5 tuling-boxes and giands, 5-inch protect, as shown and elicers, 190 Mathems Sint rots, trammod from, bearers and clusters, steples and plands, stays, belindens dash rots, bearers and clusters as teples and glands, stays, belance-but and thucks trasses, 30 fathoms buckst-rots, 32 pairs rod plates, rod bolts, 130 fathoms dash rots, trammod from, bearers and clusters, steples and glands, stays, belance-but and thucks trasses, 30 fathoms and clusters as the state of the reverse of the reverse of the stay of time and the reverse of the stay of the person in possession at the father.

ACCOUNT-ROUSE FURNITURE.

Plat and counter-box, together with a quantity of timber, landers, shaft tackle, pulloy stands, step, landers as the landers are stronged. We ward on other united articles.

For viewing the same, applies the reversed to Mr. Tracke, solicitor, Holdson or Mr.

PEREMITORY SALE OF MINING MATERIALS.

R. TREVENA is instructed to SELL, by PUBLIC AUGITOR, on Tuesday, the 13th day of June next, at Eleven o'clock in the forenon, at NORTH WHEAL BULLER, otherwise GREAT SOUTH TOLGUS MINE, near EPRUITH TOWS, the following valuable MATERIALS—vis.:

A STEAM ENGINE, 40-the cylinder, complete.

Belance-bob, capetan and shears, complete, 69 3-bot 6-inch pumpa, 6 6-bet 6-theh tat, 19 4-bet 6-inch plunger-pole, rituling-box and gland, 14-feet 6-inch windborn, 3-feet 7-sinch pole case, 3 bornes—whims, cistorm, tadders, shaft dividings, suggested straing plates, connection cape, 1 ad-inch, and 1 30-inch, amiliat bellow, miners' tood, swe and old iron, tiew Americas and Stormy timer, thout 4000 feet of plank, and 300 et of quarter med after useful timber, a quantity of brick and slate, a miner's dial, &c.

Also, THE ACCOUNT-HOUSE FURNITURE.

THE AM-PUMPING ENGINE AND MINE MATERIALS FOR SALE, AT CHILSWORTHY MINE, CALSTOOK.

R. F. A. DAVIS respectfully begs to announce, that he has been favoured with fustructions to BUBBIT FOR SALE, BY AUCTION, at SWORTHY MINE, in CALSTOCK, near Tavistock, on Tameday, the Soih June, at Floven of clock in the formoon, the undermanded STRAM-ENGINE AND MINING MATERIALS,

Ditto ditto :

Onto ditto :

and prompt to m

and prompt to m

A quantity of yokes and a

A quantity of yokes and a

Bells and burse

Fump rings

Fump rings

For one of the cast-iron

seasur-pipes and other cast-iron

seasur-pipes and other cast-iron

rod, with check,

ass sheaver

Refreshments at Bleven o'clock.
Fire and Provident Life Office, West-street, Tavistock, June 1, 1848.

VALUABLE MINE MATERIALS FOR SALE. F. PRYOR is favoured with instructions to SELL, BY PUBLIC AUCTION, on Tuesday, the 20th of June Inst., at Eleven o'clock in con, at WHEAL JEWEL MINE, in the paristr of GWENNAP, the following VALUABLE MINING MATERIALS:

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON.

LEVENTORS will receive (grate), un application, the OFFICIAL CIRCULAR OF
INFORMATION, detailing the slightle contractor for PROTECTION of INVENTIONS and
DESIGNS, with Reduced Scale of Fees.

TO BE SOLD, BY PRIVATE CONTRACT, all that well-known LEAD MINE, struste in the parish of CLYNNOG, in the county of Caravon.—A shaft, of 13 yards, has been sunk there, and the lead was then immediately iscovered, after which the proprietors caused a level to be driven of from 29 to 30 yards the place when the lead was first from the will effectually prevent water in

JALUABLE SEA-SALE COLLIERIES TO BE LET.

short distance of the shipping harbour of Perinadoc, Carnarronshire.

A GENERAL STATEMENT.

The above works are situated on a farm called Crossawr-nehaf, in the parish of Lifatrothen, in the county of Merioneth, about swen miles distant from the shipping harbour of Portmadoc, and shout two and a half from the ratilway of the Festins of Siste Carries to the port. They are near the celebrated quarries of Festinsog, which are well known throughout Europe; and it hath been assermanced, by computer judges, that this sist view is a continuation of the very productive voin worked by the Weish Siste Company at that place, of which Lord Palmerston and other neblesses are pariners, which send about 500 tons per week of fine sists to the market. The voin is about 70 yards wide, and very advantageous for working, being situated on the brow of a hill, and the rubbish thrown down, where there is a depository of 500 or 300 yards deep for it, without causing any trespass. The quality is good, splits well, and is of a beautiful blue colour.—Sistee of two largest sizes are made from it, and slabs also, of large dimensions. Thousands of fine states, worked to sizes, and beautiful slabs, are now ready on the bank.

The proprietor has ascertained most positively that no other slats quarries in Waiss

VENTONGIMPS MINE,—A 50-inch cylinder STEAM-ENGINE and valuable MINE MATERIALS FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at VENTONGIMPS MINE, in the parish of PERRANZABU-LOE, a 50-inch cylinder STEAM-ENGINE, with wood-work, first piece of rod and boiler, about 13 tons, in excellent condition. Also, one BOILER, about 10 tons, almost new. 11-inch door-pi 10-in. ditto, with

TO ENGINEERS, MACHINE-MAKERS, IRON AND TO BE SOLD, OR LET, a valuable COAL MINE, in the been severally of GREAT HARWOOD, in the county of Lancaster. The mine he been recently proved, and found to be 3 feet 2 inches in thickness, and of excellent quality; it is commonly called, or known, by the name of the UPPER MOUNTAIN MIRE and extends over about 1000 statute series, which will be divided into suitable lots. The property is situated between the tessue of Blackburn and Clifth red, and is into sected by a branch of the East Lancastrie Ballway. A section of the borings may be seen, by applying to Mr. Boosie, Rufford-hall, Orms kirk; or to Mr. Whittle, coal viewer, Charnock Eichard, Chorley—to either of when proposals may be sent.

B. T.," the Gazette Office, Parsonage-lane, Bath, WROTI

SHEAR LEG, MAST, OR BEARER, FOR RAILWA VIADUCT-(Geodesic Pares)-TO BE SOLD, BY PRIVATE CONTRACT II Is well seconded, 95 feet long, 35 feet long, 15 feet lon

STEAM-ENGINES.—From 8 to 20-horse power ENGINES ALWAYS IN STOCK.
Apply to Mr. CAPPER, Engine-Maker and Founder, BIRMINGHAM.

Price-413 to £16; with boiler, £22 per horse.

MINING SHARE OFFICE.—W. BAWDEN, of No. 2,
BANE CHAMBERS, LONDOW, MINE AGENT, of 11 years' standing, begate
call the attention of PURCHASHES of MINING PROPERTY to the following SHARES
at this particular time—viz.: United Noziona, Bodievin, Bel Mosteo, and Tuniara, as there

MR. H. B. RYE is a SELLER in TREVEAN MINE, at £20, and a BUYER in WEST WHEAL PROVIDENCE, at £10 a share. He has also business to do in some of the best divisiond-paging and other mines.

Mining Offices, 50, 048 Broad-arrest.

WILLIAM W. TAYLOR & CO., MINERAL SURVEYORS No. 2, ROYAL EXCHANGE BUILDINGS, LONDON.

WILSON & FRASER, 2, WELLINGTON - BUILDING LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SPIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS.

REUBEN FARLEY, MINE AGENT, AND LAND AND MINK SURVEYOR, WEST BROWNIEG, WEAR BIRMING

M. Killer, & Co.). SHAREBROKERS, inform their friends and the public, the make HMEDIATE ADVANCES, to say amount, on the deposit of English and Foreign Railway Shares. Serip, and Debentures, upon exceedingly advantageous terms they also BUY and SELL every description of STOCK and MINING SHARES, at mucless commission than usually charged.

6, Bank Chambers, opposite the Bank of England.

CAMBORNE CONSOLS MINING COMPANA OFFICES REMOVED TO 29, POULTRY, LONDON.—May 11, 1849. CORNISH MINING COMPANY.—OFFICES, No.

DANWEN IRON COMPANY—Established 1846—
WORKING the IfION MINES on the BANWEN ESTATE, in the neighbou
of SWANSEA, Glamorganahire. The mines are now in work, and further CAP
being REGUIRED for everting additional FURNACES. a portion of the reserved of £6 each may now be had, on application at the offices of the company. A depo
2 per share to be paid down, and the romainder by two instalments, at intervals e
months. This company offers peculiar advantages, and the profits are cetimated
turn a divisioned of 25 per cent.

Offices, 28, Threadneodie-street.

CARRAS MINE.—All PARTIES having CLAIMS at the above, are requested to FORWARD the SAME to the office, at the sor before the 17th inst., that they may be examined, and, if found correct, forthe charged, prior to the undertaking being prosecuted on an extended scale.

Dated Garras, near Truco, June 8, 1848.

WHEAL TREMAINE MINE.—All PARTIES have CLAIMS against the above are requested to FORWARD the S. of d. asf, if correct, forthwith discharged. led Gerras, near Trure, June 8, 1848.

MATIONAL BRAZILIAN MINING ASSOCIATION.

Notice is hereby given, that the MELTING of the shareholders will be HEI
filter at the offices of the company or at the London Tavera (in case of pressure),
fonday, June 12, 1848, at Twelve o'clock.

26, Throgmorton-street.

WILLIAM B. COLLETT, Chairman

PO THE SHAREHOLDERS OF THE NATIONAL BRAZILIAN MISFING ASSOCIATION —An advertisement having appeared the public papers, signed "William Rickford Collett, chaltman," convening a meeting a tie office for Monday, the 17th instant, each advertisement having been issued without the control of the

AMHEROOE WHEAL MARIA MINING COMPANY.

PROTECTION TO TRADESMEN FROM FRAUD.

PROTECTION TO TRADESMEN FROM FRAUD:

In a great commercial country like England, where probabily min-tentile of the community are directly or migroved in trade and merchandies it is but a natural result, that a class should erise whose exertions are devoted, not to honest industry sude attemptine, but to obtain an existence by the oraculaity of the more energetic and wealthy, and whose closer attention to the details and progress of their own business than to the deep-laid schemes of the symidier, often tends to make them victims.

As long since as 1776, a society was established under the title of "The Society of Guardians for the Protection of Trade," to caution and protect the trading comminity, and others who became its members, against the numerous frauds, deeptions, and impeations to which they are duly exposed. This society has progressed most favourably, and with great advantage to the commercial community, up to the present time, and is now remodelled, mader the fitle of "The City of London Trade Protection Society." Its definite objects are, to make all necessary inquiries for traders, warehousemen, and others, praviously to their giving credit; to contribute from its funds the means of prosecuting in cases of robbery, forgery, &c.; opposing in fraudulent bankruptcy and insolvency cases; and to afford advice generally to membera, against whose interests as traders, or otherwise, any such malpractices may have been committed, or attempted.

The advantages of such a society are not confined to any class; not only traders, but noblemen, gentlemen, and clergymen, are daily victimised by parties well known to the society's officers, and such frauds could hardly take place if parties would avail themselves of its services. The more fits ramifications are extended, the more good will it effect; and every new member becomes an additional and valuable agent for the safety of the property of others, as well as his own, and the general security of trade. The subscription is one guines per annum, and a private ci

ON NERVOUS DEBILITY AND GENERATIVE DISEASES.

nst published, the thirty-fifth thousand, an improved edition, revised and corrected, 120 pages, price 2s., in a scaled envelope, or forwarded, post-paid, by the Authors, to any address, secure from observation, for 2s. 6d., in postage stamps, illustrated with numerous anaformical coloured encourage.

rous anatomical coloured engravings, &c.

ANHOOD: the CAUSES of its PREMATURE DECLINE. MANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration. A Modical Easily on those dissess of the Generative Organs, emanating from solitary and solentary habits, indiscrinate excesses, the effects of climate, and infection, &c., addressed to the sufferer in oath, manhood, and old age; with practical remarks on marriage, the treatment and use of necrous and mental debility, impotency, syphilis, and other urino-genital diseases, which even the most shattered constitution may be restored, and reach the full period life allotted to man. The whole illustrated with numerous anatomical engravings on sel, in colour, explaining the various functions, secretions, and structures of the representer of the represented of the self-secretic properties. The self-secretic properties of the represented of the self-secretic properties. The self-secretic properties of the represented of the self-secretic properties. The self-secretic properties of the representation of the self-secretic properties. The self-secretic properties of the representation of a parent, proceptor, a clergyman.—Size, Evening Paper.

Gurtis, On Manhood. (Strange).—Having for many years been the standard work on the secretic properties of the patient.—Navoid and Military Gozelle.

Manhood: a medical work.—To the gay and thoughtless we trust this little work will ree as a beace to warn them of the danger attendant upon the too rash indulgence of er passions—whilst to some it may serve as a monitor in the hour of tempration, and the afflicted as a sure guide to health.—Chronicle.

Manhood: 1 by J. L. Curtis and Co.—Their long experience and reputation in the treatent of these painful diseases is the patient's guarantee, and well deserves for the work immense circulation.—Ero.

t of these painful diseases is the patient's guarantee, and well deserves for the work numerous circulation.—Erc.
blished by the authors, and may be had at their residence; sold also by Strange, 21, resets-row, London; Heywood, Oldham-street, Manchester; Philip, South Castleft, Liverpool; Robinson, 11, Greenside-street, Edinburgh; Berry and Co., Capelt, Dublin; and, in a scaled envelope, by all booksellers.

rated by 36 Anatomical Coloured Engravings on Steel, On Physical Disqualification scrative Incapacity, and Impediments to Marriage. New Edition, enlarged to 19 res.—Just published, price 2s. 6d., or by post, direct from the establishment, 3s. 6d

HE SILENT FRIEND: a medical work, on the infirmities

THE SILENT FRIEND: a medical work, on the infirmities and decay of the generative system, from excessive indulgence, infection, and the inordinate use of mercury, with remarks on marriage, and the means of obvisting certain disqualifications, illustrated by 26 coloured engravings. By R. & L. PERRY & Co., 19, Berners-street, Oxford-street, London. Published by the authors; sold by Strange, 19, Paternoster-row; Hannay, 63, and Sanger, 150, Oxford-street; Starle, 23, Titchbornostreet, Haymarket; and Gordon 146, Loadenhall-street.

Parr rus Finer treats of the anatomy and physiology of the reproductive organs, and is illustrated by six coloured engravings.—Part THE SECOND treats of the consequences resulting from excessive indulgence, and their lamentable effects on the system, producing mental and bedily weakness, nervous excitement, and generative incapacity; it is illustrated by three explanatory engravings.—Part THE THERD treats of the diseases resulting from infection, either in the primary or secondary form, and contains explicit directions for their treatment. The consequences of neglect, and of the abuse, of mercury are also clearly pointed out. This section is illustrated by 17 coloured engravings.—Part THE FORTH treats of the prevention of disease by a simple application, by which the danger of infection is obviated. Its action is simple, but sure. It acts with the virus chemically, and destroys its power on the system. This important part of the work should be read by every young man entering into life.—Part THE FORTH is devoted to the considered, and the whole subject critically and philosophically inquired into.

"THE CORDIAL BALM OF SYRIACUM is exclusively employed in treating nervous and sexual debility, impotence, &c., 11s. and 33s. per bottle.—PERRY'S PURIFYING SPECIFIC PILLS, 2s. 9d., 4s. 6d., and 11s. per box—a certain remedy in gonorhome, egicle xirictures, and chronic infammation of the bladder.—PERRY'S PURIFYING SPECIFIC PILLS, 2s. 9d., 4s. 6d., and 11s. per box—a certain remedy in gonorhome,

REMOVED TO NO. 37, BEDFORD-SQUARE, LONDON. DR. LA'MERT ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY,

DR. LAMBERT ON THE ESCRET INFRBRITIES OF TOUTH AND MATORITY,
Just published, and may be had in French or English, in a scaled envelope, 2s. 6d.; or
post-free, from the author, for forty-two stamps.

ELF-PREERVATION: A Medical Treatise, on the Physiology
of Marsage, and on the Secret Infirmities and Disorders of Youth and Maturity,
usually sequired at an early period of life, which enervate the physical and mental powers,
diminish and enfeeble the natural feelings, and exhaust the vital energies of Manbood; diminish and enfeeble the natural feelings, and exhaust the vital energies of Manhood; with Practical Observations on the Treatment of Nervous Bobility, whether arising from those causes, close study, or the influence of tropical climates; local and constitutional yeakness, suphilis, stricture, and all diseases and devangements resulting from indiscretion; with 40 coloured engravings, illustrating the Anatomy, Physiology, and Diseases of the Reproductive Organs, explaining their various structures, uses, and functions, and the isjuries that are produced in them by solitary habits, excesses, and infection.

BY SAMUEL LA'MERT, M.D., 37, BEDFORD-SQUARE, LONDON.

Doctor of Medicine, Matriculated Member of the University of Edinburgh, Licendate of Apothecaries' Hall, London, Honorary Member of the London Hospital Medical Society, are travelled from the Manie.

BY SAMUEL LA'MERT, M.D., 37, BEDFORD-SQUARE, LONDON.

Dector of Medicine, Matriculated Hember of the University of Edinburgh, Licentiale of Apothecaries' Hall, London, Honorary Member of the London Hospital Medical Society, &c.

"The author of this singular and talented work is a legally qualified medical man, who are evidently had considerable experience in the treatment of the various disorders, arising rom the foliles and frailities of early indiscretion. The engravings are an invaluable addition, by demonstrating the consequences of excesses, which must act as a adultary arming to youth and maturity, and by its perusal, many questions may be attisfactorily piled to, that adult of no appeal, even to the most confidential friend. "—Era." Unquestionably this is a most extraordinary and skilful work, and ought to be exactly circulated, by its is quite evident that there are peculiar habits sequired at public occious and private seminaries, which are totally unknown and concelled from the occious and private seminaries, which are totally unknown and concelled from the occious and private seminaries, which are totally unknown and concelled from the occious and private seminaries, which are totally unknown and concelled from the occious and private seminaries, which are totally unknown and concelled from the occious and system and end written by a duly-qualified medical practitioner, will, doubless, be the means of the means of

L SOUTH AUSTRALIAN "LABOUR MARKET." The Adelaide Observer, of 25th Dec. last, in giving an account of the state of supply, demand, and remuneration, of the several descriptions of artizant and labourers, for the information of intending sunigrants, makes the following semants in reference to those classes in which our readers are more immeliately interested: diately interested :-

tely interested:—

sinerz.—The influx of this class of workmen has been very considerable, and all of them not employed in valuing operations, but they find it easy to obtain ordinary labour at to 30s, per week; and some employed in well-sinking, and even in quarrying, have a saming more. At the northers mines some clever and steady miners are doing disomely, and very few have any reason to complain—although a realisation of anti-ted success in some of the mine soare related is necessary to produce an engross-claim for the services of all the miners in the province in their legitimate calling.

see working on owners' account are variously yaid, according to circumstances and orking on owners' account are varied ability, from 25s. to 35s. per week.

Blackmiths—are in demand at 36s. per week.

Bricklayers.—A few occasionally out of work, 7s. to 8s. per day.

Curpenters.—Good hands in demand, 7s. per day.

Labourers—(in town) in demand, 4s. to 4s. 6d. per day—agricultural ditto, in dema
at 10s. to 12s. a-week, with rations; superior hands get more, and meet with good
convarement.

agement.

agons—In demand, at 7s. to 7s. 6d. per day.

agons—In demand, at 7s. to 7s. 6d. per day.

agons—In demand, and can usually earn 40s. per week.

agemently of mechanics in the building line are fully employed,

ches of it are in great demand.

The generality of mechanics in the building line are fully employed, and those in some branches of it are in great demand.

IMPROVED RAZOR.—Mr. Davis, cutler, of Leadenhall-street, has recently registered under the Utility Designs Act, a razor of highly-improved configuration, which consists in giving a curvilinear form, lengthwise, to the edge of the blade, and leaving more room for obtaining a good purchase on it when shaving. The handle also is bevelled withinside, to allow more space for the entry of the blade when shutting to—thus preventing the injury to its edge, that frequently occurs from catching on the sides of the handle. These improvements, combined with the improved principle adopted in grinding the blade, produce an instrument having every advantage over those hitherto made. A Tipping Cart, used by excavators, agriculturists, and others. It consists in having an iron fixed on the cross timber of the shafts, standing up between the stude in front of the cart, there being attached to the framing supporting the eart in front thereof a spring bolt, that takes into holes formed in the tipping iron, by which means the cart is maintained in a steadfast position; and by releasing which, by pulling its handle, placed on one side of the vehicle, the same can be tipped without difficulty, and, in consequence of the various positions of the holes in the tipping iron, adjusted to different degrees of inclination. A new tail-board is likewise shown, applied to this cart. The advantages obtained by these arrangements are, the ease with which the carter can tip the cart, and the avoidance of the danger of the horse kicking against the tipping iron, which the present iron is liable to, from being pendant from the cross timber of the shaft.

NEW VOLTAIC BATTERY.—At one of the recent sittings of the Leipsic Polytechnic Society, M. Stöhrer exhibited an improved voltaic battery in working condition. In the construction of this battery, M. Stöhrer employs since substance formed in the interior of coal-gas retorts, whi

of electro-magnets thus formed, to form the steel magnets of the electro-magnetic machines of his construction.

Trlegraph Company are reported to amount to \$1000 per month. The Western Telegraph Company are reported to amount to \$1000 per month. The Western Telegraph Company is, however, said to be doing a better business than that.

The Electric Telegraph Company.—Having observed, from time to time, in your Journal, the various additions connected with our telegraph, it may not be uninteresting to record the recent improvement I have made in this branch—reducing the expenditure of battery power to one-tenth of the amount required before; so that now, listead of working on the long circuit (a distance of about 250 miles), with an equivalent of 240 pairs of plates, 24 pairs do duty, with a much more effective result—the reduced intensity not suffering so much by the effect of bad insulation. The most important point, however, is the economy of power when it is applied to the numerous stations throughout the kingdom, and the increased facility of working through a much larger amount of circuit resistance. The addition consists in the substitution of a single small steel lozenge, three quarters of an inch long, for the two 5-inch astatic magnetic needles, and placed between two small coils, of peculiar shape. This form has the advantage, besides those already mentioned, of giving a signal free from that constant vibration of the needle, against which so much has been said—the pendulous action of gravity being very limited, from its better adapted form.—NATH. J. HOLMES: Athenaum, May 30.

signal free from that constant vibration of the needle, against which so much has been said—the pendulous action of gravity being very limited, from its better adapted form.—NATH. J. HOLMES: Athenoum, May 30.

THE MATERIALITY OF ELECTRICITY.—Mr. Dix having requested, through the medium of your Journal of the 20th inst., that I would communicate further relative to an experiment of mine that was noticed on the 18th of March last [see Mining Journal of the 25th]. I beg the favour of a brief space in your columns for that purpose. The writer of the extract referred to in your correspondent's letter, seems to have been particularly struck by the fluid flowing first from the fracture near the bottom of the jar, and again ceasing to flow, first at the latter and then at the former; and, appearing to have been satisfied in his own mind by this, he does not notice the point upon which I most depend as a proof of materiality. Hence Mr. Dix seems to have been led to apply his ingenious test, the unsatisfactory result of which naturally arises from the extreme difficulty of removing the moveable coating from the interior of the jar, without deranging the position of the fluid upon the glass, which might even be altered by induction during the withdrawal of the pieces without contact, so extremely sensible is it to extraneous influences. On account of the readiness with which pyrogen is disturbed, I have avoided drawing any inference from its effects in the interior of the jar, and rest the proof of gravitation solely upon the curved form of the luminous streams, resembling the descent of water from a spout, which I find to be distinct from the ordinary discharge of the jar; for when this discharges itself, as frequently happens over the lip during the progress of the experiment, the fluid passes to the outer coating by as straight a line as the shoulder of the jar will allow. With respect, however, to the lapse of time between the appearance of pyrogen at the lip and fracture, Mr. Dix's suggestions, relative to the distan does not the discharge take place at the latter? It would appear that the fracture is sufficiently small to prevent the passage of the whole mass of pyrogen at once, which affords strong evidence of the existence of matter that can be held back whilst a portion is issuing in a visible stream; but, as already observed, I depend upon the parabolic form of the descending streams to decide the point of materiality. In reference to the name pyrogen, which is objected to by the Medical Gazette, quoted in the Athenaum of the 18th March last, I would observe, that it was first adopted in the Polytechnic Review of January, 1845, at which period no one had used it, and I conceive that any subsequent application of it for another substance should give place to mine. Should the above not prove satisfactory to Mr. Dix, or any other of your numerous readers, and they feel sufficiently interested to inquire further into the experiment and the applications made of it, they will find them in the Lancet for the 12th January, 11th March, and 22d April last.—J. J. Lake: Royal Laboratory, Portsmouth, May 24.—Athenaum.

# The Magnetic Telegraph.

along the emooth and stender wires The steepless heralds run— Fast as the clear and living rays Go streaming from the sun: No peals or flasher heard or seen, Their wondrons flight betray, And yet their words are plainly felt In cities far away.

No summer's heat nor winter's hail, Can check their rapid course; They meet unmoved the fierce wind's rago— The rough wave's sweeping force: In the long night of rain and wrath, As in the close of day, They rush, with news of weal or woe, To thousands far away.

## Transactions of Scientific Bodies.

発展 PO ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	
MEETINGS DURING THE ENSUING WEEK,	
THIS DAY Royal Botanic Inner Circle, Repent's park	3‡ P.W.
MONDAY Geographical - 3, Water 100-place	84 P.W.
British Architects -16, Grosvenor-street	8 P.M
TURIDAY Medical and Chirurgical—53, Berners-street	8 P.M.
Zoological—11, Hanover-square	9 P.M
Syro-Egyptian -71. Mortimor-street Cavendish-square	72 m 24
WEDNESDAY Society of Arts Adelphi	RPM
Geological—Somerass-hausa	QA D W
Literary Fund—78. Great Russell-street	2
SATURDAY Royal Asiatic—14, Grafton-street	2 P.M.

## ROYAL COLLEGE OF CHEMISTRY.

6

ROYAL COLLEGE OF CHEMISTRY.

The annual meeting of members was held at the college, Hanover-square, on Monday.

—B. B. Carrier, and M.P., presided.—The Secretary read the report of the council, which expressed their satisfaction at the increasing number of students: in the first year of the society's establishment, the amount received in fees from that source was 5291. 14s.; in the society's establishment, the amount received in fees from that source was 5291. 14s.; in the second, 6511. 10s.; and in the present year, 7371. 10s. They referred with satisfaction to the report of the professor for some interesting details respecting the progress of the students. With regard to the financial condition of the institution, they regretted to state that the subscriptions towards it had materially fallen off. It had been found necessary to incur a heavy debt for the building of the laboratories, &c. & fund was opened to defray it, which promised well in the beginning, but which eventually left the institution with liabilities to the extent of 2000t. In order, as far as possible, to most these liabilities, the souncil proposed a pre rate anbertption among their bedy. The result was, that several members of the council and other noblemen and gentlemen, amountsing in all to 23, contributed 501, each towards the object, and six others promised to come forward with a similar sum. By this means they were enabled to pay off the debt upon the building account, amounting to 1200t., which covered every remaining liability connected with the building, with the exception of 100t due to the architect. Buring the present session 52 students had entered. In the laboratory all classes of society were represented; and working at the same table might often be found a psec of the realm, a medical student, a member of parliament, and a druggist's apprentice. Buring the present session 52 students had entered. In the laboratory all classes of society were represented; and working at the same table might often be found a psec of the realm, a

MAY 31.—C. LYELL, Eq. (V.P.). In the chair.

A paper, "On the Colouring Matter of Red Sandstones, and of Greyish and White Beds associated with them," by J. W. Dawson, Eq., was read. The author's remarks apply chiefly to Nova Scotis, where red beds of any great extent first appear in the lower part of the carboniferous system. With them are many beds not of a red colour; partly grey, or dark andstones and shales, partly limestone and grysum. The colouring matter of the red beds is the peroxide of iron, which the author thinks has been derived from the decomposition of the sulphurer of iron in the older Silurian rocks, whose destruction furnished the other materials of the deposit. The absence of colour in the grey beds he ascribes to the influence of decomposing regetable matter, they being always accompanied by thin scame of coal, or contain remains of fossil plants. in the harbour of Picton, a similar change is now seen to take place—the red mud carried into it by the rivers being changed to grey by the iron entering into combination with sulphur, probably obtained from the sulphates in the sea water, under the deoxidating influence of decomposing vegetable matter.

"Remarks on the Structure of the Calamite." by J. C. T. Though one of the contraction of the contraction of the company of the contraction of the contractio

rrom the sulphates in the sea water, under the deoxidating influence of decomposing vegetable matter.

"Remarks on the Structure of the Calamite," by J. S. Dawes, Esq., was then read. Though one of the most abundant fossils of the coal formation, the true nature of this plant has hitherto been unknown. M. Brongniart considered them as alled to the Equisetaces, an opinion very generally adopted, though opposed by Lindley and Hutton in the Fossil Flora. Mr. Dawes has procured some very perfect apecimens, in thin silice of which the structure of the wood is still apparent. This most nearly resembles that of the Confers, and shows that the plants had a distinct wood and bark. From the specimes obtained, the author concludes that the calamite possessed most clessity a structure only to be met with in a dicotyledon; but, with certain characters-censificating it a link connecting the three great classes of the vegetable kingdom.

A "Notice on the Discovery of a Dragon Fly, and a New Species of Leptolepis, in the Upper Lias, near Chelitenham, with a few Remarks on that Formation in Gloucestershire," by the Rev. P. B. Brodie, was read. The remains of insects found in the lias have hitherto been confined chiefy to single wings and elyrics; and the present is the first nearly perfect insect of this order found in this country. Mr. Westwood considers that it comes nearest to the genus Diplax; but the head is unfortunitely so shatered, that its precise character cannot be determined. The fish from the same locality has been described by Sir P. Egerton, who names it Leptolepis concentricus.

precise character cannot be determined. The fish from the same locality has been described by Sir P. Egerton, who names it Leptolepia concentricus.

BRITISH INVENTORS' PROTECTING COMPANY.

The members of this company held their second quarterly meeting at their office, 184, Fleet-street, on Thursday, the 8th first.

Mr. W. Harrower (chairman) stated, that the present meeting was the second quarterly meeting of the company. The report of their proceedings would be submitted, and he had no doubt, found satisfactory. He then called on Mr. Alexander Campbell (their secretary) to read the report, from which we make the following extracts: "Six memiss ago the company was formed, for the purpose of raising funds to enable an ingenious mechanic to make models, and obtain a patent for some valuable inventions connected with improvements in the construction and simplifying of locomotive, marine, and other engines; and also for improvements in propelling and stopping trains on railways; vertical float propeller for steam-vessels, &c. For that purpose the company resolved to raise a capital of 3001, divided into 60 siarse, of 51. each; these shares had all been taken up by 24 working men, who were destrous of assisting one of their own order to obtain protection for his skill and labour, which the present defective state of the Patent Laws completely put it beyond the power of any working man to obtain by his own unskided exertions." "The company had obtained the great seal for letters patent for Mr. John Weston's inventions on the 16th of Feb. last, for which, and for making models, engine, &c., 2301, had been expended." "Their engineer reported flat the model engine, of 20-lorse power, would be ready for working in about a month, and by that time, also, the other parts of the inventions would be ready for specification." The report then stated, that there were not less than seven distinct inventions which Mr. Weston intended to specify under his patent, each of which would be of great importance to the public, in regard

reatise on the Falsifications of Food, and the Chemical Means employed tect them. By John Mitchell, M.C.S., author of a Manual of Prassaying. Bailliere, Regent-street.

tect them. By John Mittohell, M.C.S., author of a Manual of Practical Assaying. Bailliere, Regent-street.

Since the publication of Accum's famous Death in the Pot, some 30 years since, we do not remember to have seen a work devoted, like the one under notice, exclusively to the adulterations of human food, and the chemical means of detection. The volume will protect a most seasonable one, as, during the period which has elapsed since Accum's experiments were published, numerous discoveries in chemistry have enabled the frauduler time, it has emabled the chemist to devise greater facilities for its detection. The view entertained by the author in publishing this interesting work, he states in his preface, is to supply the necessary information to the public, for the detection of adalteration in food, as, though not generally known, nearly all the substances used, either troduced with a view—1. To make the substance more saleable, by improving its appearance by the addition of some body, innoduous or otherwise.—2. Of depreciating its quality, by adding to it some substance which will diminish its real, without altering its appearance by the addition of some body, innoduous or otherwise.—2. Of depreciating its quality, by adding to it some substance which will diminish its real, without altering its appearance by the addition of some shops, innoduous or otherwise.—2. Of depreciating its quality by addition of some shops, which will deviate a substance, as water; or, if a solid body, plaster its quality by the addition of some simple substance, as water; or, if a solid body, plaster to measure or weight, many consist of highly deleterious substances, such as the salts of copper and lead, coculus indicus, vitriol, quassia, grains of paradiae, and other mineral and velocity in a domestic point of view, as the nature of the material of which they are compended as the liming for all cooking reassles, and copper and brase condemned, in least thory and the particles of food, is highly interesting and interesting the par

The Metallurgical Creatment of Gres. ed from June 3.—No. XX.]

Fusion of Tin Ores in the Reverberatory Fuenace. The furnaces are of the ordinary reverberatory kind, and generally contain from 12 to 14 cwts. of ore. The charge is prepared by mixing the ore with a quantity of dry coal of ore. The charge is prepared by mixing the ore with a quantity of dry coal in powder; the quantity varies from 1-16th to 1-8th of its weight, according to richness: in some works, a small quantity of lime is added, in order to increase the fusibility of the slags. The whole is well mixed, and moistened with water. This last precaution is useful in charging the mixture, as it prevents the dispersion of the ore by the draught of the furnace. The heat employed is very great, but it is only gradually increased; and, when the charging is accomplished, Mr. Taylor thinks that the most important point is so to manage the fire, that the tin shall be reduced to the metallic state before the slag commences to fuse; for he says, that if that be not the case, a white enamel is formed, which cannot be reduced. This can be avoided, however, by the addition of a considerable quantity of lime. Lastly, so great a heat is given, that the whole enters into fusion, which is to be kept up for six or eight hours; after which the whole contents of the furnace are well agitated, by means of rakes, so as to facilitate, as much as possible, the separation of the metal from the superabundant slag. It must now be allowed to remain at rest for a few minutes, the slag removed as perfectly as possible, the furnace tapped, and the metal run into the cast-iron vessel intended for its reception; the slag which collects on its surface is removed, and the metal cast into ingots, which are to be refined. The slag, as soon as it becomes hard, is divided into three classes—the first of which is too poor to be signi treated; the second contains some grains of tin, is stamped and washed, and the residual tin and small admixture of slag re-fused; and the third, and last, is that collected from the surface of the metallic bath, and is sufficiently rich to undergo an immediate fusion. The working of tin ores is the easiest of all metallurgical operations, there being only two points to attent to—the first to reduce the metal count metalle since the redu in powder; the quantity varies from 1-16th to 1-8th of its weight, according

fused, that the reduced and fused metal can readily pass through it, and collect in one mass. The lime added contributes much to the fusibility of the slag; the coal merely acts as a reducing agent, by abstracting the oxygen of the oxide of tin.

Refining Crude Tin.—The ingots of tin obtained in the above process, are generally more or less impure. Taking into consideration the density and fusibility of tin, in comparison with that of the substances containing it, the process of refining can be readily understood. The substances containing in the product of the first fusion, and which have to be separated, are generally iron, copper, tungsten, and a certain quantity of areniurets, sulphurets, and some earthy matters, from slag that has not perfectly separated.

The refining furnace is a reverberatory furnace, very similar to that used in the reduction; but, in place of the reception basin, there is a refining basin, communicating directly with the furnace, into which the refined metal runs, as it passes from the furnace. The furnace being heated to such a moderate temperature, that the ingots of tin placed in it only very gradually enter into fusion, the fused metal runs into the refining basin, which is kept hot by means of a small fire underneath it. By this method (a kind of liquation, as already described under the treatment of copper ores for silver) the more infusible substances remain in the furnace; this substance is a very ferruginous alloy. In proportion as the blocks of tin in the furnace disappear, and run off into the basin, fresh blocks are added, until the latter is full of melted metal. When a basin, fresh blocks are added, until the latter is full of melted metal. When a basin, fresh blocks are added, until the latter is full of melted metal. When basin, fresh blocks are added, until the latter is full of melted metal. When basin, fresh blocks are added, until the latter is full of melted metal. When basin, fresh blocks of tin in the furnace is necessed, so as to fuse the bitther to infusible r

TREATMENT OF THE ORES OF ZINC .- This metal is met with in nature in a state of sulphuret and oxide, mixed, or combined, with other substances. From

-state of sulphuret and oxide, mixed, or combined, with other substances. From these result many compounds, which are not always employed for the extraction of the metal, but which we shall mention in a general way.

The sulphuret of zinc (blende, black-jack) is rarely found isolated in considerable quantities, but accompanies the sulphurets of other metals, lead more especially. The appearances presented by blende are very various—the purest has a sulphur yellow colour, and is very transparent; but it more often occurs of a reddish or greenish brown, or even black. A very considerable quantity of this ore exists in Derbyshire, Cumberland, and Cornwall; it also occurs in Sweden and Saxony, as well as in many other localities.

The following are some analyses of this ore from various places.

The following are some analyses of this ore from various places: Zine ... 6370 6370 6176 4273 5570

Iron ... 2\*0 3\*4 4\*0 7\*3 8\*8

Sulphur 35\*0 23\*6 33\*0 25\*5 36\*2

Gangue ... ... 1\*5 24\*9 ....

100-0 100-0 100.0 100.0

The next ore to be considered is the hydrated silicate of zinc (electric calanine). This ore is generally accompanied by anhydrous carbonate of zinc, and nown generally as a variety of calamine. It is sometimes colouriess, some imes bluish, yellowish, or greyish white. The following are analyses of this ind of ore:

 
 Aimes bluish, yellowish, or greyish white.
 Aimes bluish, yellowish, or greyish white.
 Aimes bluish, yellowish, or greyish white.
 Aimes bluish, yellowish, yel 99.7 98.0 100.0 100.0

Anhydrous Carbonate of Zinc or Calamine.—This is the most common form of zinc ore—is found crystallised, and is white, yellowish, grey, or brown, and either transparent or opaque. It is very often found in thick layers or masses; it is found at Mendip, in Somersetsbire, Matlock, in Derbyshire, Wenlock Head, and the Lead Hills, in Scotland; it also occurs at Alston Moor, in Cumberland. The following are analyses of several specimens of this variety:—

99.6 99.4 99-4 99-9

The principle on which the working of all these kinds of ores depends is very nimple. The zinc in the ore is reduced to the state of oxide by roasting. If it be calamine, carbonic acid and water are disengaged; if it be blende, its sulphur is transformed into sulphurous acid and its zinc into oxide. In every case, therefore, oxide of zinc is finally operated on. It is mixed with carbonacceus matter, placed in a vessel, closed above and open below, so that the fused and vaporised zinc may pass into a reservoir below the distillatory apparatus; so that, in fact, the metallic zinc undergoes a complete distillator, being first fall yaporised and these contents of all yaporised and these contents.

so that, in fact, the metallic zinc undergoes a complete distillation, being first of all vaporised, and then condensed in proper vessels. There is always, however, a very considerable preparation of the metal, but the causes, however, have not yet been very fully investigated, and are, therefore, rather uncertain. Method of Roasting Zinc Ores.—This operation is indispensible for blendes, and extremely serviceable for calamines. In the first case, the sulphuret of zinc is converted into oxide; and in the latter, the expulsion of carbonic acid and water gives the ore a certain degree of porosity, which much favours its reduction.

and water gives the ore a certain degree of porosity, which much lavours its reduction.

Method of Roasting Blende.—This is effected in various ways, and with a considerable difference in the success of the result. It is sometimes roasted per se—sometimes with the addition of lime. At the brass foundry at Jemappe it is roasted per se, in a reverberatory furnace. The roasting is very easy; the ore remaining pulverulent, and not agglutinating in the slightest degree, if a very moderate amount of care be used in regulating the fire. As is usual in all roastings, the ore must be continually stirred, so as to expose fresh surfaces to the action of the atmosphere. In proportion as the blende becomes heated, it inflames; and when the amoke gradually diminishes, and at last entirely disappears, the operation is finished: 100 parts of blende give about 82 parts of roasted blende, which, according to Berthier, contains, in the 100 parts, oxide of zinc, 88-5; oxide of iron, 7-0; earthy matters and unacted on blende, 4-5—100-0. It is a remarkable fact, that no sulphate of zinc is formed during this operation, which is, doubtless, owing to the comparatively high temperature employed. In England we also obtain metallic tin from blende; this

ore washed and reduced to about the size of a nut, is sold at Holywell, on the mine, for about half the price of calamine. It is roasted, without any other preparation, in reverberatory furnaces. These furnaces are about 8 feet wide and 10 feet long; the distance from the furnace arch to the level of the sole hearth being about 30 inches. The layer of blende is about 4 or 5 inches in thickness, and, during the operation, is continually stirred. The blende requires about four times its weight of coal to roast it, and the operation lasts about 12 hours.

Roasting of Culamine.—This ore also requires roasting; that is to say, the operation of reduction proceeds more readily after the ore has passed the reverberatory furnace. We can, for instance, readily conceive that a lower temperature is required to roast calamine than is necessary to distil zine, or reduce its oxide; besides which, the carbonic acid and water disengaged at the moment of roasting are two causes, opposing the mixture with the ore of hydro-carbonaceous matter, resulting from the decomposition of coal necessary for the reduction of the produced oxide. It is, therefore, advantageous that both water and carbonic acid should be separated before reduction be attempted. The following are the processes to which calamine is submitted before reduction, in some of the most modern works of Upper Silesia:—

The miners separate in the mine the calamine from the accompanying limestone, as well as from as much clay as possible. Sometimes, however, the calamine thus treated contains a sufficient quantity of clay to be prejudicial to future operations; this is separated, by exposing it for a considerable time to the action of the sir. In order to effect this, it is arranged in heaps of a few cwts. each, and turned from time to time. The clay is soon removed by the rain, or by the moisture of the atmosphere, either washing it out or disintegrating it. It is then picked, and broken into pieces about the size of a pigeon's egg. The furnace employed in the operations

[ To be continued in next week's Mining Journal.]

# Proceedings of Public Companies.

MEETINGS DURING THE ENSUING WEEK.

MEETINGS DURING THE ENSUING WEEK.

This Day ... Deptford, Rotherhithe, and Bermondsey Gas-Light and Coke Compan,—London Tavern, at One.

Monday ... National Brazilian Mining Association—at Twelve.

Turbaday ... Condurrow Mining Company—on the mine.

Wheal Seton Mining Company—on the mine.

Bodmin and Wadebridge Railway—Nine Elms Station, at Twelve.

Great Indian Peninsula Railway—offices, at One.

Wednesday ... Sambre and Meuse Railway—London Tavern, at One.

Mexican and South American Company—offices, at One.

National Reversionary Investment Company—offices, at Two.

Law Clerks' and General Provident Investment Company—Portugal

Hotel, at Seven F.M.

Thubsday ... Shrewbury and Birmingham Railway—offices, at One.

London Gas-Light and Coke Company—offices, at Eleven.

Saturday ... South Wheal Betsey Mining Co.—Buller's Arms, Mary Yavy, Devon.

[The meetings of Mining Companies are inserted amond the Mining Intelligence.]

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## BANK OF BRITISH NORTH AMERICA.

The annual general meeting of shareholders was held at the establishm Helen's-place, Bishopsgate-street, on Tuesday, 6th inst., and was well attended.

JAMES DOWIE, Eq., in the chair.

Mr. G. De B. Attwood (the secretary) read the report, as follows:—

Mr. G. De B. Attwood (the secretary) read the report, as follows:—

REFORT.

In the report presented to the proprietors at the last annual general meeting, the directors referred to the probable reaction on the North American Colonies of a fall in the prices of agricultural produce, contingent upon an abundant harvest in Europe; and they also remarked on the necessity for caution in the business operations of the bank, owing to the severe pressure on the British money market. Their most anxious endeavours were devoted throughout the year to guard the bank from the disasters which they could not but apprehend from the above causes; and although, in passing through the unparalleled commercial calamities of the last autum, losses to a greater extent than was expected have been incurred by the bank, the measures of precaution which the directors had caused to be taken have materially diminished on evil which it was beyond their power to prevent. The gatreme scarcity of money which was experienced for a considerable period by the commercial classes in this country was, of necessity, soon felt throughout the North American colonies, in the withdrawal or curtailment of mercantile credits and banking accommodation. In submitting to the proprietors the usual statements of the results of the last year's business, the directors would remark, that the diminution in the net profits, as compared with fuses of the year 1846, has been eccasioned by the increased amount which they have thought proper to set aside to meet the estimated losses by bad and doubtful debts; and although the rate of profit during the last quarter was materially diminished by the pleasures of precaution adopted by the directors, yet the gross profits of the bank for the entire year 1847 have exceeded those of any former year. The net profits for the year 1847, after making the required provision for bad and doubtful debts, not being found equal to a year's dividend, at the rate of 6 per cent. per annum, the directors, adhering to the principle laid dow

It is secured to the control of the bank was seconded.

Mr. Barkewall (a director) agreed with the chairman, that the capital of the bank was intact, and that there was an amount beyond that capital. As regarded that motion, he was sure the board were willing to abide by what the proprietors thought fit. The Charkeman thought the secretary had better read that part of the report again which related to the figures, which was done accordingly.

Mr. DLUVER FARRE (a director) was sure that the directors would be as willing as any one else to take 1 per cent. more, if they found it could be done consistent with the interest of the bank. (Hear, hear.) They had been distinctly told, on a former occasion, that they would have no hesitation in reducing the dividend if the time should arrive; and he thought, if they did so now, when times had been what no one could have foreseen, and calamities had pervaded the whole commercial world, there was no reason to complain; indeed, in his opinion, compared with other institutions, he thought they had reason to console themselves. (Hear, hear.)

to complain; indeed, in his opinion, compared with other institutions, he thought they had reason to console themselves. (Hear, hear.)

Capt. Kekly, R.N., perfectly recollected the observation of the chairman, that they would not return of the chairman, that they would not return of the chairman, that they would not press. If they would divide a amn of money which must be taken either from their rest or their capital. He had two questions to ask, which, however, he would not press, if the directors should think them injudicious. The first was, what was the amount of the bad dobts, in their estimation, for the current year?—The Chairman, The sum of which we estimate the bad and doubtful dobts for the year is 25,000%.—that is up to the present time.—Capt. Kally, R.N., observed, that, taking the pressure in the money market into consideration, he was quite prepared for that.

The Chairman,—They are entirely provided for out of the year's profit. (Hear, hear.)

The Chairman,—They are entirely provided for out of the year's profit. (Hear, hear.)

The Chairman,—They were profits are \$4,000%, and we divide \$6,000%, which is close enough. (Hear, hear.)

Mr. Banswall.—That is, 28,000% being doducted from the profits, leaves \$4,000%. The Chairman replied in the affirmative.

Mr. Chairman,—They are successful that, at the end of this year, supposing they paid the dividend, they would have \$500% surplue out of last year's profits, instead of having 1000%, surplus, as they had after paying last year's dividend out of the profits after year preceding. Capt. Kelly, R.N., observed that, when they divided up to the 31st of December, 1846, they had \$1,000.; and when they divided up to December, 1847, they had \$4,000.0 or rest.

The Chairman,—The profits are taken up to the 31st December, 1847, they had \$4,000.for rest.

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The Chairman,—The profit

the present year; but, of course, they had reduced the dividend to the extent of 10,000.

Mr. CHAMBERLAIN said, that the question was, whether they were to have a full excount, or statement, of their affairs, more particularly as they only met there once a year. Did the body of directors set their faces against this? (No, no.) He believed they were obliged to make some statement in the London Grastite, or did they not publish some account in the colonies? Could they not make them a little earlier for the use of the shareholders in England? The London and Westminster Bank, as well as the Colonial Bank, made such statements to the proprietors.

Mr. J. J. CHMINS (a director) observed that, by not publishing the accounts, it must not be understood that the directors set themselves in opposition to the proprietors. (No, no.), Discussions had arisen several times on the subject, when the propositions had always been withdrawn.

Capt Ogarkac thought, as the directors were not opposed to the object, the resolution had better be withdrawn.

Mr. R. Canten (a director) said, they did publish every year in the Gazette a statement of the accounts and liabilities of the bank, which he thought was all the hon. proprietor could obtain by his motion. (Hear, hear.) It was not the wish of any director to withhold any information from the shareholders possessed that, they would not be able our vive at any better opinion of the concern than from the report just read to the meeting. Capt. Kellet he moved, that the report be received, approved, and printed, for the use of the proprietors.—Mr. Lewes ecouded the motion, which was passed unanimously. James Dowle, Eaq. Alexander Gillespie, Eaq. and G. R. Robinson, Eaq., M.P., the directors who retired, were then re elected unanimously.

James Dowle, Eaq. Alexander Gillespie, Eaq. and G. R. Robinson, Eaq., M.P., the directors who retired, were then re elected unanimously.

James Dowle, Eaq. Alexander Gillespie, Eaq., and G. R. Robinson, Eaq., M.P., the directors who retired, were then re

REGENT'S CANAL COMPANY.

The half-yearly general meeting of shareholders was held at the offices, City-road Basin, on Wednesday, the 7th instant.—The Marquis of Salisbury, K.G., in the chair.—The SECRETARY read the report, and the balance-sheet, which showed the receipts for the half-year to have been—from tonnage and wharfage, 23,4291.; rents, 22401.; dividends SECRETARY real the report, and the connecessation, which showed the recepts to the half-year to have been—from tonnage and wharfage, 22,4591.; rents, 22401.; dividends on stock, &c., 3661.8s.—making a total of 25,0351.8s. The expenses for the same period were 11.4081.0s. 3.6d.—leaving a net profit for the half-year of 13,6271.7s. 10d. The assets and liabilities up to the 31st March were—assets, amount due from traders, 98331.0s. 8d.; from tenants, 12811.18s. 4dd.; shares, 1110f.; stock Three per Consols, 68291.11s. 11d.; casl: in hand of treasurer, 14844.0s. 11d.; amount of loan, 5000f.; expended on new works, 63833.9s. 4d.; cost of pumping water, 464f. 4s. 9d.—making total of 32,3956.5s. 11d. The liabilities were—dividends unpaid, 3161f. 14s.; creditors, 22693.16s. 7dd.; berowed, 50000.; reserved fund, 7763f. 6s. 3d.; profit balance from former account, 574f. 1s. 23d.; profit for last half-year, 13,627f.7s. 104d.—making total of 32,395f.5s. 11d. A dividend of 12s. 6d. per share was recommended.—The Chainman moved the adoption of the report. Mr. Hirches objected to the reserve fund being invested in Consols. They were put down at 100f., when in point of fact they were only worth 80f. The money should be invested in Exchequer Bills, or some certain stock. A public body ought always to have the balance available at a moment's notice, and not subject to fluctuations.

Mr. Marhaw complained, that the accounts were fails clous, and, therefore, he submitted that the dividend could not be 12s. 6d. per share.—Alderman Wilson fully concurred in Mr. Maybew's remarks. It was the duty of the auditors to make up the accounts properly, and lie (Mr. Wilson) had no doubt sufficient had been said on the subject to induce them to make an alteration in future.—The subject then dropped.

Mr. Carrin of the company were paying 5 per cent. Interest on 9000l., whilst the reserved that we borrowed their own money, which they could have done had it been in hard cash.—The report was then adopted and the meeting separated.

GRAND JUNCTION CANAL COMPANY.

At the half-yearly meeting of proprietors, held at the Crown and Anchor Tavern, Strand, on Tuesday, the 6th inst.—the Hon. P. P. Bouverie, in the chair—a very satisfactory report was read, the principal topics of which related to the success of the new carrying system, recommended to the proprietary at the last meeting. In pursuance of the policy amittee had confined their trials to two lines-1. Between Lo so recommended, the committee had confined their trials to two lines—1. Between London and Manchester, of which the once productive traffic of the canal had for soveral years entirely ceased; and 2. Between London and Derby, Leicester and Nottingham. In both cases the results had been satisfactory, and a considerable portion of the trade with Manchester had been restored to the canal; whilst, on the other line, there was a steady increase. In contrast to this, however, the committee regretted to say, that there had been since Christmas last a continued decrease in the general tonnages of the canal, as compared with previous years, which renders the carrying trade an act of self-preservation. In order to provide the necessary funds for this object, the committee recommended the creation of a 6 per cent. preferential stock, to be distributed rateably amongst the proprietors. The tonnages for the half-year amounted to 43,4981. 13s. 6d., and the whole revenue during the same period amounted to 51,4441. 15s. 1d. The balance was 30,7984. 11s. 2d., out of which the committee recommend a dividend of 21. 10s. per share, free of income tax.

GRAND UNION CANAL COMPANY.

At a meeting of shareholders, held at the office of the company, Surrey-street, Strand, a Monday, the 5th inst.,—Vere Fare, Esq., in the chair,—the following report was

ead and adopted:—

The following is the usual comparative statement of tonnages, charged for the 6 and 12 months ending respectively on the 31st March, 1847, and 1848:-

The decrease in the six months being..... £ 19 1 11 nage for the 12 months, to the 31st March, 1847, produced....... £7832 18 8 nage for the 12 months, to the 31st March, 1848, gave............. 8595 6 4 The increase on the 12 months being ...... £ 762 7 10

Receipts and Expenditure of the Company for the Six Months ending March 31, 1848.

| RECRIPTS. | RECR Balance in favour of the company on the 31st March, 1848:- £4592 7 5

With the treasurer's cash £1152 10 9

Ditto Exchequer Bills 5000 0 0

Leicestrahiro Banking Company 532 11 3

Goddards, bankrupts 129 16 4-6814 18 4

Total .....£11,407 5 9

Of the tonnage charged to the 21st March last, and payable monthly by traders, who are allowed credit, there remained due at that time the sum of 1224f. 18s. 4d.; bet of this sum 633f. 8s. 8d. now only remains due to the company on this day.

In pursuance of the resolution of the special assembly, held on the 1st Nov. last, the committee caused notices to be inserted in the London Gazetle, and in the Lefecestrathre and Northamptonshire newspapers, stating the company's intention of availing themselves of the powers and provisions of the Acts of Parliament of the 8th and 9th Vic., cap. 2s and 43, to enable canal companies to become carriers of goods on their respective canals. The committee have had under their consideration the repeated applications of the coal-owners and traders on the canal for a further reduction of tonnage on coal; and the whole line of canals, from the Cromford to the Grand Union, having at length agreed to a reduction of 114d. per ton, your committee have concurred in this—though not without roluctance—and the share on our canal of this reduction will be 14d, per ton. This reduction, calculated on the coal trade of the last few years, may involve a less in the first instance to some extent, perhaps £1000 a-year; but they feel justified in holding out to the proprietors the hope, that a very increased trade may be anticipated, and such loss, therefore, only temporary. The very great competition by the railways, however, has made the reduction necessary.

The committee recommend the declaration of a dividend of £1 per share, amounting to the sum of 2849, 10s., to be payable on the 19th June Inst.

The inspecting engineer, with the assistance of the company's surveyor, inspected the canal and works in the most creditable order and condition.

Steam Mavigation in Bhazil.—The navigation of the River Amazon by steam has been at length attempted, the first essay having been made by a small steamer, called the Guapiassa, drawing very little water. She proceeded from the city of Para to the River Negro, on the 6th of Nov., and returned on the 27th of Jan. last, having occupied 82 days on the voyage, of which she was 33 detained at the bar of the Riv Negro, and called at 12 different places, atoping several hours at each, going and coming; the experiment completely succeeded. The great difficulty apprehended was easily overcome, that of procuring a sufficient supply of fuel. She could not stow away more than 70 tons of coals, which were only sufficient for seven days' consumption; whereas she was 19 days with the steam on, and, consequently, obliged to have recourse to wood. After trying several qualities, they found four different qualities thereof, which answered equally as well, if not better, than coals, obtaining a higher degree of pressure, and a greater number of revolutions from its use, at a much less expense—that of coals for the whole voyage would have been 2925 milreis, whereas the actual cost of the wood amounted only to 355 milreis, occasioning, moreover, much less labour from the sahes being more easily removed. The fire-place of the Guapiassa was constructed for wood, and the logs were cat to suit it. Peru is highly interested in the navigation by steam of the Amazon. A company is being formed at Rio, for improving the navigation of the River Mercury, which communicates with Rio and the provinces of Minas and St. Paulo, the two most productive, fertile, and best populated in the empire.

# Mining Correspondence.

ENGLISH MINES.

ANTIMONY AND SILVER-LEAD.—Captain Charles Williams (June 4) reports—We have 9 fms. to drive from the present end to cut No. 1 lode, as it underlays west; we shall cut this lode about 4 fms. deep. The lead lode last discovered has considerably increased in size, it being now 3 ft. wide, with a beautiful lead-spar, mundic, and lead, but not so rich for the latter as when first cut; but there can be no doubt but that it will be so shortly, as the lode is split up, and now appears to be coming together again. It is not more than 16 or 18 ft. deep; our end, also, is full of very strong mundic, underlaying to No. 1 lode; the end is set at 35s., and driving on the new lode at 30s. As regards the Grenville adit, the east and west lode cut there underlays south, with some good apois of lead in it. The newly-discovered lode is underlaying east, but No. 1 lode is underlaying west, as well as the Wheal Sarah lode. Some of the silver which we have assayed from our new discovery, produces 300 ozs. of silver to the ton. 00 ozs, of silver to the ton.

BARRISTOWN.—Captain Thomas Angove (June 2) reports—In the adit end, east of Nangle's shaft, the lode is rather improved for lead since my last, but still producing no regular quantity; the lode in the winze, in the bottom of adit level, is producing less'ore than last reported, from a slide that has just gone through the winze; the pitches in the back of this level are producing a fair quantity of ore; in the bottom of the level we are greatly obstructed in working from the adit water. The pitches in the lode mine are poor. The cross-cut, south from eastern flat-rod shaft, is very wet; and, from the appearance of the ground, we think we are getting near the lode. In the level, east of Slob shaft, there is no change.

BEDFORD UNITED.—Capt. T. Ellery (June 7) reports—At Wheal Marquis, the ground in the engine-shaft-is favourable. In the 90 fm. level east we are still carrying 2 ft. of the lode, which is producing good saving work; the lode in the 90 fm. level west is without alteration; in the stopes, in the back of this level, the lode is still worth 351, per fm. The lode in the 80 fm. level east is 2 ft. wide, producing good stones of ore. In Evans's winze, in the 70 fm. level, the lode is 3 ft. wide, producing good work. We have stoped the 47 fm. level east, and put the men to drive south in the 90 fm. level. The pitches remain much the same as so rosme time past.

BIRCH TOR AND VITIFER.—Capt. S. Seccombe (June 5) reports—I find

cast is 2 ft. wide, producing good stones of ora. In Evans's winze, in the 27 fm. level, the lode is 3 ft. wide, producing good work. We have stoped the 47 fm. level, the lode is 3 ft. wide, producing good work. We have stoped the 47 fm. level, the same as for some time past.

BIRCH TOR AND VITIFER.—Capt. S. Seccombe (June 5) reports—I find the sett to be a very extensive one, embracing many parallel lodes, which have been found more or less productive for tin, so far as wrought on; these lodes cross a deep valley nearly at right angles. The greatest extent of the work lugs has been on, what is called, the Birch Tor lode, and worked by a former company to the depth of 62 fathoms below the deep adit, and from which they realised a very large amount of profit; the greatest part of the tin was broken from this lode, west of the valley; and, for its further development, the present company have embarked a large amount of capital—the greater profits of which has been expended in the exection of water-wheels, stamps, opening lests, clearing adits, shafts, &c., with a large quantity of materials; after this, great preparations were made. I am sorry to say, that very little work has been done towards effecting the object sought after. The ground aunk by the present company in the engine-shaft has only been 12 fms.—making the shaft 74 fms. below the adit; at this depth a level has been driven west on the course of the doe a few stathoms, which was found to contain a small quantity of this; if the diving of this level had been continued, it would have proved that part of the lode over which he former company realised the greater part of their profits. Being of opinion that the driving of this level would have laid open a large quantity of good this ground, I think it an object of very great regret that the pitwark should have been so hastly taken up before the least trial had been made. The principal part of the underground operations done by the present company, in laying open this lode, has been east of Guppey's that,

CALLINGTON.—Captain J. T. Phillips (June 5) reports—Kelly Bray ine-shaft is now being sunk by nine men below the 35 fm. level; we let 8 fms. at 111. 10s. per fm.; in the north engine-shaft the ground is had usual. In the 100 fm. level south no alteration has taken place. In than usual. In the 100 fm. level south no alteration has taken place. In the 90 south we are opening tribute ground; in the eastern end the ground is favourable for driving; we expect to cut the great cross-course before the expiration of this month. In the 70 east we have no change to remark; in the stopes the lode will produce 6 tons per fm. In the 50 we are still driving south to the east of the small cross-course. At the south mine, in the 125 north, the lode looks very promising, producing silver-lead ores. The 112, both north and south, is tribute ground, and is being opened. In the 100 and 90 north no lode has been taken down. We expect to sample a parcel of copper ores to-morrow, computed 100 tons.

CARWINNING HILL.—Captain John Cock (June 7) reports—We have sent the lode in Roger's shaft, the appearances rather promising—it is looking setter in the shaft for copper than it has been in the winze, the last 4 fms.; the ode in the winze is more productive at present than it has been since we cut the crossing. In No. 2 winze no alteration since my last, producing good stones of grey copper. The stopes, in the back of deep adit, are looking favourable, producing good stones of bell metal, and grey copper, and abundance of maluchite—the smalls of which are sifted and put to pile, as the exposure to water will take off the greens which would reduce the quality; the adit end is productive for copper; in the adit west, on the course of the lode, are small particles of copper, interspersed hroughout the lode. We are going on with dressing as fast as we can; we are enlarging the dressing plat, and we hope to be in a position to double the number of dressers in a hort time. There are seven Cornish dressers sent here by Mr. J. Richards; but, in consequence of not having a Cornish carpenter to make Jigging machines, we shall not be able to employ them all at this time. Capt. Francis has written to his friends in Wales for a carpenter, and we hope to do the work, we shall not be written to the second cornish them to the course of bliged to wait on the Scotch carpenters to do the work, we shall be very much behind in dressing. COATLITHE HILLS.—Captain J. M. Paull (June 3) reports—On getting

wait on the scotch carpenters to do the work, we shall d'une be that in dressing COATLITHE HILLS.—Captain J. M. Paull (June 3) reports—On getting deeper into the hasle bed, we have discovered that the vein has separated into small strings, in consequence of being so near the outburst of the strata; but from their appearance, I expect, in a little distance eastward, they will all b loined together. The vein is still producing some good stones of lead ore, in termixed with rider, spar, and soft clay, and has a promising appearance.

CWM ERFIN.—Capt. S. Nicholls (June 3) reports—The men in the whim-shaft have sunk 5 ft. this week; the lode is just as last reported, with some stones of ore; the end is just the same as last week's report; the stope, west of whim-shaft, is worth 10 cwts. of ore to the fin.; the stope, east of whim-shaft, is worth 15 ewts. of ore to the fin.; there is a piece of ground to the east end of the stope which is not so good for ore, but the west end of the stope is just as

is worth 15 ewts, of ore to the fin.; there is a piece of ground to the east end of the stope which is not so good for ore, but the west end of the stope is just as last reported. The stope, west of the eastern shaft, is worth 6 cwts of ore to the fin. The mean in the engine-shaft are taking down ground for a plat, and to make room to sink, which they will complete next week.

DHAN PRIOR AND BUCKFASTLEIGH.—Capt. J. Carpenter (June 3) reports—The engine-shaft is sinking under the 30 fin. level very satisfactorily; the stratum is rather improved, and very likely to continue as we progress with it in depth; the pitwork being completed to the 30 fin. level, we have thought it prudent to place three men more to expedite the sinking, till it is down to the intended 40 fin. level—as I believe, from the present appearance of the lode in the 50, both east and west of the shaft, there is every probability of its producing satisfactory results; the north part of the lode, east of shaft, is 5 feet wide, interspersed with copper ore and mundie; as there is more lode to the south, we have given directions to cut into the south wall, to ascertain its full sus and proportios, it being divided by a horse of killas; the lode, west of shaft, is more than 7 ft. wide, including the capels on the south part, carrying a leader of mundie, spotted with copper ore, 5 inches big; the north part about 4 ft. in width, composed of spar, peach, and some good atones of yellow ore, is more solid than I have seen it in the 20 fin. level above this part. The lode in the bottom of the 20, west of the winze, is much improved since it passed through a slide. The machinery is working very well, and the new stamps in full operation, preparing the ore to mix with the parcel already cleaned.—Captain H.Choake (June 7) reports—the are greaten on with the sinking in the engine shaft as well as we can expect, not having a lift of pumps fixed under the 20 state.

sent we can make a greater progress; and we have increased the number of men from six to nine, in order to get down with all possible dispatch, to prove the lode to the 40 fm. level. We have commenced cross-cutting south in the 30 fm. level, east of the cross-cut, or engine-shaft, in order to prove the south part of the lode; in this level, driving weat, we have a large strong lode, from 7 to 8 ft. wide, carrying a leader of mundic about 5 in. big, which are good indications. The lode in the pitch, in the bottom of the 20, is somewhat improved. We have a sufficient stream of water for working the stamps, and shall get on with stamping the work with all possible speed.

DEVON AND COURTENAY.—Capt. N. Seccombe (June 6) reports—In the end driving west, on the goesan lode, the lode is 1 ft. wide, composed of mundic, spar, and spots of ore; in the end driving south, on the cross-course, there has not been any lode discovered this week. The lode in the winze, sinking in the bottom of the 40 fm. level, on the south lode, we have intersected the slide seen in the 30 fm. level; this has happened sooner than was expected, owing to the dip of the slide not being so much as it appeared to be in the level above. In our 50 fm. level, we are driving on the cross-course north, to intersect the lodes. The men have been partly engaged this week in removing penthouse, casing shaft, &cc.

The men have been partly engaged this week in removing penthouse, casing shait, &c.

EAST CROWNDALE.—Capt. S. Paull (June 3) reports—The ground in the 58 fm. level north still continues spare to drive in its composition, being just precisely as when last reported upon; the ground in the 58 fm. level south is composed of soft killas, spar, and capel, and is favourable to drive on. The lode in the 47 fm. level west is not quite so large as when last reported upon; it is about 10 in. wide, composed of capel, spar, mundic, and good stones of ore, and has altogether a favourable appearance; the stopes, in the back of this level, are in appearance just as usual, nearly 2 feet wide on an average, composed of mundic, peach, spare, capel, and ore; the winze, sinking below the 47 fm. level west, is not so good as when last reported upon, the lode being much mixed up with killas, which has deranged its appearance. The lode in the engine-shaft at Rix Hill is still about 5f. wide, composed of elvant, spar, peach, capel, and spots of tin. The end driving on the course of the south lode, in Rix Hill adit, is about 2½ ft. wide, composed of peach, mundle, spar, and at times spots of tin.

EXMOOR WHEAL ELIZA.—Capts. W. H. Whitford and Thomas Dunn (June 7) report—There is no material alteration in this mine since our last. The progress of our driving the 12 fm. cross-cut is about 6 ft. per week—set now at 6l. per fin.; we expect to cut the lode within the time first named.

GREAT MICHELL CONSOLS.—Capt. T. Richards (June 7) reports—We have divided and cased down the sump-winze from the 85 to the 45 fm. level; put in penthouse, &c., so as to draw the stuff broken from the levels with the whim, instead of by manual labour. In the 45 fm. level, east of the sump-winze, the part of the lode being carried 3 ft., is very promising, composed of mundic, fluor, and stones of ore, intermixed with mundic, fluor, and spar, and is, in its general character, indicating an improvement. In the 35 fm. level west, the lode is without important alter

general character, indicating an improvement. In the 35 fm. level west, the lode is without important alteration, containing mundic, capel, spar, and ore. HOLMBUSH.—Captain William Lean (June 6) reports—The lode in the 182 fm. level, west of the diagonal shaft, is still divided in small branches of spar, mundic, and spots of copper ore. The lode in the 120 fm. level south is 5 ft. wide, composed of spar, prian, and lead, worth 5L per fm.; we have set a rise in the back of this level, both to ventilate and to lay open tribute ground The lode in the 110 fm. level south is 4 ft. wide, composed of quartz, prian and lead, worth 5L per fm. The lode in the 100 fm. level south is 2 ft. wide composed of prian, spar, and stones of lead—saving work; the rise being about 7 fms. above the back of this level, we thought advisable to suspend it, and set each end of it on tribute; and we intend sinking through the remaining 3 fms., from the 90 fm. level, to make the communication; the winze, below this level, is likewise suspended—being sunk 7 fms. below the 100, and each end of it is set on tribute. We shall effect a communication to this winze by rising above the back of the 110 fm. level. The Flap-jack lode, in the 100 fm. level east, is 3 ft. wide, composed of spar, mundic, blende, and stones of copper ore, with favourable ground for driving. The lode in the 90 fathom level south is 20 in. wide, composed of spar, flookan, and stones of lead.

KIRKCUDBRIGHTSHIRE.—The agents (June 3) report—In consequence of the water being in last week, and the railway in Stewart's shaft so much out of repair, the sumpmen have been taking out and relaying it this week; for the same cause the 50 fm. level, west of Stewarts' shaft, is without alteration; on the north lode likewise, there being but little done in either. The 40 west has been communicated to Keith's shaft; in the 40, west of Keith's, shaft, the lode is about 18 in. wide, with good stones of lead, and in a kindly rock; in the same level, east of Stewart's, the lode is about 6 in

in this level has not improved since has report. In the 30 end, west of Keith's shaft, the lode is 35 haft, wide, yielding good stones of lead, and in a kindly rock; in the same level, east of Stewart's, the lode is about 3 ft. wide, with a fine mixture of lead through it—say, 5 or 6 cwts. of lead to the fathom.

LEWIS.—Capt. S. J. Noell (June 3) reports—The lode in the 70 west is 1 ft. wide, unproductive at present; the logic in the 70 west, on south branch, is 5 in. wide, yielding some good work for tin; the lode in the 60 east is 2½ feet wide, producing some tin, and very promising; the lode on the 60 east, on south branch, is 4 ft. wide, worth 500, per fm. The 50 fm. level end east, on south branch, is 4 ft. wide, worth 500, per fm. The 50 fm. level end east, on south branch, is now being driven at 10a. 6d. in 12, for saving the tin, where I think the tributers are making fair wages. The lode in the 40 east, on south branch, is south level with the south lode, in the 10 east, is yielding some good work for tin—driving at 12s. tribute.

SOUTH DOLCOATH.—Capt. P. Floyd (June 6) reports—We have commenced casing the shaft from the 40 to the 50 fm. level; we have also set a plat, to cut in the latter level; and on the completion of these two bargains, we shall resume sinking the engine-shaft; we have taken the run of the lode towards the cross-course in the different levels, laid the same down at surface, and find the distance from the engine-shaft to the said cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. We have set several pits to costean near the cross-course to be 104 fms. the program of the contract with the program of the contract with the fisures of the contract wit

which injured the whim-shaft, so as to mande us from drawing a part of the tributers' work, in consequence of which we are short in our sampling.

TIN VALE.—Captain John Floyd (June 5) reports—On Saturday, the 3d, our usual survey took place for the public setting, to the lowest bidders, of all the different works in this mine. Aland's shaft was taken at 2L per fim.—extent 10 fms.; when completed, Aland's shaft will be 16½ fms. deep; it has been reported, that the great caunter lode was in the bottom of the aforesaid shaft; it is not the case; it is 6 ft. north-east of the present bottom; and at that distance there is the lode from 4 to 6 ft. wide, as reported, producing good saving work for tin: it is a very handsome lode indeed; I shall be able to let you know more about this lode in my next, as the said lode will go through, or be in, the shaft in about 2 fathoms deeper: the water in the shaft at this time is four 18-gailon barrels per hour; and, should the lode continue down (and isse no reason why it should not), we shall, by the end of next week, be rising and drawing large quantities of timetuff to grass. At Rose's adit, the ground in the cross-cut, driving south, is rather stiff, and a great deal of water proceeding out of the end, and from the different branches we are intersecting; the said branches are droppers failing into the great caunter lode, which are good indications for making abundance of tin cros: I set the aforesaid to drive for \$1.16a, per fathom, to six men—extent, 6 fms. In the end of the middle lode, going south-east, the lode is 2 ft. wide, composed of blue capel, quartz, mica, and also, on Saturday to two men—extent, 6 fathoms, at 50a, per fm.; we are saving the timpy part of this lode for stamping. The tributers on the north

lode, in the back and bottoms, south-east and west of the cross-cut, are getting fair wages; their time will not be up until the end of this month; they are working their pitches for 10s. In 12. At the streams, I have put several men to work on the tin, and it is very likely we shall shortly be making good returns from them. I have also to inform you, that I put the smith's and carpenter's work to a public survey, and, by so doing, have made a saving of 51. 6a. per month. We shall complete stamping and cleaning the tributers' tin on Wednesday next, and then shall commence stamping the owners', so as to get a good batch of tin for the market. On the whole, our mine is looking extremely well, and all things go on with prosperity.

TINCROFT.—Capt. P. Floyd (June 6) reports—The 142 fm. level, east on Higbburrow lode, is worth 101. per fm. The stopes in the back of the 129 fm. level are worth 171. per fm. The 100 fm. level, west on Chapple's lode, is 3 ff. wide, with spots of ore; in this level we have got about 10 or 12 fms. more to drive, in order to get under the ore ground gone down in the level above. The 90 fm. level west is worth 181. per fm. The 80 fm. level west is worth 162. per fm. The 58 fm. level east, on Dobree's lode, is 15 in. wide, with spots of ore; the 58 fm. level west is 18 in. wide, with stones of good quality ore. At North Tincroft, the lode in the 100 fm. level east is worth 64, per fm.; in the winze, in the bottom of this level, the lode is worth 81. per fm.; in the winze, in the bottom of this level, the lode is worth 81. per fm.; in the 90 fm. level west the lode is 23 ft. wide, with stones of ore. In the 80 fm. level west the lode is worth 82 per fm.; in the 90 fm. level west to East Pool lode, is at present poor. The 70 fathom level west is worth 164 per fm. The 80 fm. level west, on East Pool lode, is at present poor. The 70 fathom level west is worth 164 per fm. At Stainsby's shaft, we have communicated with the adit coming from East Wheal Crofty, and are now engaged in cutting plat an

adit as soon as possible.

TREGORDEN MINE.—Capt. Robt. Dunstan (May 29) reports—This mine is situate in the parish of Egloshayle, near Wadebridge, Cornwall, and is within a mile from the shipping port, whence all kinds of minerals can be exported, and materials imported to great advantage, with little expense of land carriage. The stratum in which the lode is found is killas, of a light drab colour, moderately soft, and easy for working. The sett extends upwards of 500 fms. on the course of the lode, and presents such indications as are seldom seen so near the surface. The lode, which has just been discovered, is composed of gossan and spar, with a fair quantity of lead. Several assays have been taken, which prove the lead to be rich for silver, producing from 77 to 151 ozs. of silver to the ton of ore. The lode has been operated on by sinking two shafts, each from 15 to 18 ft. deep, and from 80 to 90 fms. apart; it continues to look well in both shafts, which proves it to be of some good extent. On the whole, I consider it to be a very inviting adventure.

TRELEIGH CONSOLS.—Capt. William Symons (June 3) reports—In the

I consider it to be a very inviting adventure.

TRELEIGH CONSOLS.—Capt. William Symons (June 3) reports—In the 120 fm. level, east of Christoe's, the lode is 2½ ft. wide, but not much ore. Garden's shaft, below the 100, is sinking in the country. In the 100, west of Garden's shaft, below the 100, is sinking in the country. In the 100, west of Garden's, the lode is 3 ft. wide, with good stones—rather of a promising character. The 90 west is cross-cutting south to cut a south part of the lode. In the 80, west of ditto, the lode is 15 in. wide, with good stones of ore, and more promising. In the 70, west of ditto, the lode is 2½ ft. wide, worth 12L per fm. In the 50, west of ditto, the lode is 2½ ft. wide, worth 6L per fm. In the 50, west of ditto, the lode is 18 in. wide, worth 5L per fm. In the adit east, on Wheal Parent, the lode is 2½ ft. wide, producing good stones of ore. The cross-cut, north of Wheal Parent, is to cut Wheal Orphan lode.

WEST WHEAL JEWEL.—Capt. Richard Johns (June 5) reports—In the

Wheal Parent, is to cut Wheal Orphan lode.

WEST WHEAL JEWEL.—Capt. Richard Johns (June 5) reports—In the 57 fm. level, west of Williams's cross-course, on Wheal Jewel lode, the lode is 2ft. wide, worth 12l. per fm.—drove last month, 1 fm. 1 ft.; in the 57 fm. level, east of ditto, on same lode, the lode is 1 ft. wide, worth 4l. per fm.—drove last month, 1 fm. 2 ft.; the rise in the back of the 57, on Williams's cross-course, was risen last month 3 fms. 5 ft. In the 70 fm. level, west of Williams's cross-course, on same lode, the lode is 14 in. wide, worth 5l. per fathom—drove last month, 1 fm. 2 ft. The 30 cross-cut, south from Tolcarne tin lode, was driven last month 1 fm. 1 ft. 6 in. In the deep adit, west of Hodges's cross-course, on the same lode, the lode is worth 3l. per fin.—drove last month, 2 fms. 1 ft. 6 in. In the deep adit, west of Hodges's cross-course, on the same lode, the lode is worth 3l. per fin.—drove last month, 2 fms. 1 ft. 6 in. In the deep adit, west of Charry shaft, on Tolcarne tin lode, the lode is 2 feet wide, poor—drove last month, 3 ft. 9 in. Tregoning's shaft was sunk last month, 3 fms. 2 ft. 6 in. The men that have been cutting south-west of the stopes, in the 12 fm. level, will work the bottom of this level on tribute, as soon as the tinwork is cleared that was broken last month; the lode in this place is worth 20l. per fathom.—Capt. James Carpenter (June 6) reports—Agree-

as the tinwork is cleared that was broken last month; the lode in this place is worth 20l. per fathorn.

WHEAL ANDERTON.—Capt. James Carpenter (June 6) reports—Agreeably to my promise at the meeting, on the 27th April last, I beg to apprise you of the lode being cut m the 80 fm. level; the time and distance, as specified then, has been realised. I refrained from reporting at its intersection—waiting till its size was ascertained. On this morning's inspection, I am satisfied as regards its width, which is 8 ft. from the north to the south wall; the underlay south is 7 in. in a fathom—therefore, the deeper we have sunk the less it underlays, which I conceive to be one of the principal features in a lode to be observed, as a criterion for the future productiveness, especially as it is far superior in appearance, and producing more im, than in any level above at its first intersection. There is a leader of very good work on the north wall, 2½ ft. wide; the middle part of the lode is composed of a white elvan, almost bordering on an appearance of grantle, interspersed with spots and floors of tin ores. On the south wall, the part that carries tin varies from 18 in. to 2 ft. wide—on the whole, very good work. I must say, from the general appearance of the lode, I have great confidence in the ultimate success of our underlaking, as its size, and properties, are materially improved in depth. I have also to add, that the 70 fm. level, west of engine-shaft, is looking well, and, in all probability, from the stopes in the bottom of the 60, 6 fms. west of the 70 end, we shall soon have it much richer than at present. The several pitches in the bottom of the 60, and back of the 70 fm. levels, are producing a sufficient quantity of the to remunerate the tributers fairly at 6s, 6s. 6d., and 8s. in 14. I shall sample about 8 tons of tin ore next Monday, which would, lawe been done to day, had not a misfortune occurred in the crown wheel of the stamps axle: however, it is now set right, and we are going on with the stamping as

the preceding was written, there is a great improvement in the 60 west, under the bottom of the level.—June 9.

WHEAL LOOSLEIGH.—Captain N. Anthony reports—Since I last wrote you, we have discovered a branch of excellent copper ore in the adit level, about 25 fms. from the mouth of the adit, which is running due east and west, and is about 4 in. big, composed of yellow ore and spar, in a bright blue killas; we are now in with the adit 88 fms., and have 11 fms. more to drive to cut the north lode; the lode is now in the bottom of the sink about 5 feet big, and a more promising lode cannot be seen, composed of spar, gossan, and a large leader of spar, carrying some mundic and copper, bearing due east and west; we shall cut this lode in three weeks, unless we meet with much harder ground than we have had all through the level: we are now giving 45s. per fm.; and all our cost is paid up to the 11th May, leaving a small balance in hand.

WHEAL MARY ANN.—Capt. Peter Clymo, jun. (June 5), reports—The lode in the 40 fm. level, south of Barratt's shaft, is 8 ft. wide, and worth 25L, per fm. The lode in the 30 fm. level, south of Barratt's shaft, is 2 ft. wide, and worth 10L per fm. Pollard's shaft is sunk 6 fms. under the 30 fm. level. The lode in the 30 fm. level, north of Pollard's shaft, is 1½ ft. wide, and worth 4L per fm. The lode in the winze, sinking under the 15 fm. level, south of Pollard's shaft, is 2 ft. wide, and worth 4L per fm. The lode in the winze, sinking under the 15 fm. level, south of Pollard's shaft, is 2 ft. wide, and worth 4L per fm. The lode in the winze, sinking under the 15 fm. level, south of Pollard's shaft, is 2 ft. wide, and worth 4L per fm. The lode in the winze, sinking under the 15 fm. level, south of Pollard's shaft, is 18 ft. wide, producing some good stones of lead. The 15 fm. level, south of Pollard's shaft, is 18 ft. wide, and worth 4L per fm. The lode in the winze, sinking under the 15 fm. level, south of Pollard's shaft, is 2 ft. wide, producing some good stones of lead. The 15 fm

the 30 fm, level. The stopes generally are looking well.

WHEAL SARAH.—Capt. J. Spargo (June 8) reports—In bringing up our lobby from the river, we have got into a solid shelf, which is very soft for driving—we have set men to drive at 3s. per fm., until they get into the depth of 12 ft.; they are now within a few feet of that depth, and will commence driving close, so as to unwater the shaft; we have secured and timbered the shaft, and the shaftmen are getting on satisfactorily with sinking; we are repairing a smith's shop; and the materials, large smiths' bellows, &c. that I purchased at Wheal Martha sale, are on the mine. I have put a man to open a few pits on the lead lode that is discovered in the antimony sett, which I shall report next week.

WHEAL TRELAWNY.—Capt. John Bryant (Jane 6) reports—Our fixing the lift, and doing other work, preparatory to sinking Phillips's shaft, under the 62 fm. level, will, I expect, be completed by Thursday next; the lode in the rise, near the 62 end north, is very similar to my last report, worth about 71, per fm.; in the 62 south the lode is worth 81, per fatheom. The lode in the 52 north is small, and in a disordered state, producing good stones of lead: 71. per fm.; in the 52 south the lode is worth st. per assume. The louis in the 52 north is small, and in a disordered state, producing good stones of lead; however, judging from the run of orey ground in the 42 fm. level, I look forward to an improvement in this end shortly; in this level south the lode is 2 ft. wide, composed of spar and can, with a leader of lead, yielding about 8 cwts. of ore per fm.; we have resumed sinking the winze, under this level, where the lode is still large, producing about a ton and a half of ore per fm.; the lode in the 42 north is 2 ft. wide, composed chiefly of can and lead, worth 81, per fm.; the stones generally throughout the mine are improved since my last. There is no change of importance in Trelaway's shaft, or in the 22 cross-cut east. At the north mine, the lode in the 30 fm. level, north of Smith's shaft, is large, and worth 81 per fm. We sampled a parcel of ore, computed 93 tons, on the 3d inst., which is to be sold on the 12th.

CAEDIGANAHIRE GREAT LEAD-BASIS.—We trust to be able to lay before our readers a full statement, accompanied with a hand-sketch of this important mining district, in the manner in which we have given the Caradon and Camberne districts.

CAMARYONSHIER GREAT SLATE FORMATION.—We are also making pranagements for a skotch and particulars of this district.

We have been informed, that Mr. C. S. Richardson, with an efficient staff of assistants, some of whom are from Comwall, are now engaged in making a complete survey of the great state vein and mineral property on the lordship of Mowddy, in Merionethshire, part of which is also for a railway from Dinas to Derwenlas, to connect the various quarries with a shipping port.

FOREIGN MINES.

TMPERIAL BRAZILIAN MINES.—Extract from the Agent's Letter, dated April 10.—We have still to express our regret that we have not succeeded in getting off any more of the pumping machinery, though we have had many tropicus clocking at it.

Gold report from March 13th to 22d—5 lbs. 7 czs. 16 dwts.—56 lbs. 11 czs. 11 dwts.

23 grs. gold dust (value about 2600/1). has arrived at Rio, and is daily expected in England.

Gongo Soco, April 3.—The new pumps have been landed in Rio some time; but I fament to informs you, that the flue with the turnost difficulty—if indeed it to possible, of which I have some doubts—that it ropeiro will be found to take them; and if we should be so fortunate as to engage one, I dread that it will not be until after a long de-lay, and even then at a cost at the least double that for which the lighter weight would have been long ready, and, for want of the new pumps, must in the new machinery will have been long ready, and, for want of the new pumps, must in the neamwhile be employed to work the smaller old ones; because, whilst driven to shifts, we cannot advantageously employ our people in the deeper parts of the mine, whilst with them, we believe, we are sure to drain the mine, and immediately commence extracting gold. Gongo continues without alteration; we have but a couple of minera at work, if it absolutely impossible to reach the gold vuin; whilst with them, we believe, we are sure to drain the mine, and immediately commence extracting gold. Gongo continues without alteration; we have but a couple of minera at work in the mine, and they are merely employed in excaping the old fevels. At Bananai, the extension of the new adit from Thomas's shaft is so increasing the water, that our machinery will not fairly master it, and, course and immediately commence extracting gold. Gongo continues without alteration; we have but a couple of minera at work in the mine, and they are merely employed in excaping the old fevels. At Bananai, the extension of their master it, and, coursequently, we can

if the saw-mill and Walker's wheel could be got to work early in May, those things are proceeding very rapidly; and as both of them are importants, soveral less immediately required surface works have, for the present, been suspended.

April 13.—Mesars. Mackay, Miller, and Co., are doing their utmost to obtain carriers for the pumps, and have found conveyances for the lighter portions of them. No one has hitherto cared to take the heavier parts; and as your interests are rainously suffering by the delay, I have determined to send the association's troep to Rio for them, unless they shall have been dispatched within a week from this time. There is no doubt but that the absence of the troop will compel us to purchase provisions at higher prices than we should have otherwise given; this difference will, however, be insignificant, when compared with what we are suffering from want of the pumps. Twenty or thirty people must accompany the troop to Rio, as every animal must be led—every load having to be suspended between two mules, the state of the roads forbidding any other mode of transport. At Gosgo, our underground operations have entirely ceased. The stamp produce is smaller than usual, as we have had to make a new road, before we could proceed further with removing the rubbish from the previous public way, whence the chief part of our late produce has been obtained. At Bananal, Walker's shaft has reached the stron slate formation, and the influx of water has consequently increased very much. Should this continue as we sink the shaft, I fear we shall be driven out by the water before the arrival of the new pumps, as we fear those we may take from other parts, whilst lease will lessen the efficiency of the parts thus deprived, will not enable us successfully to combat the additional stream. We shall, however, continue to do our utmost, and shall not abandom this most necessary and important work, until our every resourch has been exhausted. The increase of water at Walker's shaft has caused a corresponding diminu

to 12th April, 21bs. 4 ozs. 19 dwts.=9 lbs. 9 ozs. 1 dwt.

NATIONAL BRAZILIAN MINES.—Cocaes, April 2-12.—We holed from the stope east of Terrill's winze, to the rise in the back of the shallow adit level (see last report) on the 8th inst., and there is now agreat extent of lode open for examination; from Terrill's winze easierly, to the western part of the Bandelra stopes, there are about 15 fms. of ground unexplored, in which there will doubtless be some favourable deposits of gold met with; but whether the whole mass is sufficiently productive as to warrant its extraction, we have yet to ascertain. The stuff, however, from an old mine that was driven by the English through this piece of ground, and deposited in some former exervations, was put to the stamps in January last, which produced favourably; and we shall, consequently, endeavour to get as near as possible to the Bandelra level, in order to work upon the line of our own excavations in Oxenford's stopes below.

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REAL DEL MONTE MINES. - Extract from a letter dated Zacateeas, 13th April, received on the 7th June; -

REAL DEL MONTE MINES.—Extract from a letter dated Zacaiceas, 13th April, rescreted on the 7th June;—
I had the honour of addressing you on the 4th inst., duplicate of which I beg herewith to enclose.—I have thought it better not to send the regular inventory at present, but to do so by the packet, icarful that this letter may not reach you, as I send it to Tampleo, to be sent vid the Unifed States. Mr. Clement will, no doubt, have delivered to you the one made out to the end of December, 1847; and I now enclose the aummary of the general inventory made out to the end of March, 1848, which will show you the difference between them. You will observe that I have not calculated anything for the value of the buildings of the haciends of Ginco Senores, having only taken at a low value available property that can be realised at those prices at any time, which I hope will meet your approval. I am happy to inform you, that at daybreak on the 10th inst., I succeeded in getting the water so low in the cross-cut of La Compania (1 vara high), that since then the workmen have been able to work. In the afternoon of the 11th, we succeeded in getting the water into the shaft; and during that night, and that of the 12th, we were able to take off one malacate to extract ores. The water rose about half a vara in the cross-cut, which we have got out in the day by the four malacates. As far as we have been able to see, we are not yet on the veln, as we are upon white quartz, but in a few days I fully expect that we shall meet ores. At present there is no water coming from the planes, but a small stream that we have cut in the east end of Guadalupe has filled up about 1 vara of plane No. I, but this we can easily get out by the pumps, and then continue working the whole of the planes completely dry. I trust that in a few days the stream of water from the cross-cut of La Compania will lessen, and thus allow us to spare one malacate. Next week very little will be done, it being Passion week, and full of feast days; but I fully expect t

# ACCIDENTS.

ACCIDENTS.

Kirkby Ireleth.—A melancholy accident happened to S. Coward whilst working at a windlass. He was in the act of winding up, when something fell and almost severed his nose from his face.

Foundry, Horsleyfields, to W. Yates, who was employed at the works. Yates was playing with a boy, who threw a stone at him whilst standing near to one of the grinding-stones; and, when in the act of attempting to cross the pit in which the grinding-stone revolves (in order to avoid being struck), his boot alipped, and he fell into the pit, which is 3 ft. deep, and partly filled with water. The distance between the stone and adjoining wall is not more than 18 in., and within which space Yates fell—so that it was impossible for him, as he slipped down, to avoid getting into collision with the stone. The result was, that he was cut he a most rightful manner across the groin, which was completely laid open, the principle muscles being severed and other severe injuries inflicted. His right hand and arm were also dreadfully mangled. The stone, at the time of the accident, was revolving at the rate of upwards of 200 times a minute; and it would have been impossible to have stopped it in less than 20 min, the grinding-stones being worked by stoam-power. The unfortunate youth was taken out of the pit as quickly as possible by another youth named Roden, or in all probability he would have been drawn undermeath the stone and ground to atoms. A man of the name of Hadley, who was sitting close to the stone in the act of grinding, was so petrified at witnessing the accident, that he became as it were rivetted to the spot, and was unable to render any assistance. The grinding stone is 13 in, thick, and 6.0 r 7 in in siameter. Immediately after the accident, that he became as it were rivetted to the spot, and was unable to render any assistance. The grinding was removed to the dispensary, when it was found that the liquires to his hand and arm were of such a nature as to render necessary amputation just above the wrist. The operati

A deputation from the Steam-Ship Owners' Association of London, companing 21 companies, and representing upwards of 100,000 tons of steam shipping, had an interview with Lord John Russell, on Wednesday, at his official residence in Downing-street. The deputation consisted of Mr. Wilson, Mr. Williams, Mr. W. J. Hall, Sir John K. James, Mr. Morgan (secretary), and Mr. Bryden (Parliamentary agent), and was accompanied by Mr. Brown, M.P.,

ST. JOHN DEL BEY MINING COMPANY.

The eighteenth annual general meeting of proprietors was held at the London Tavern, on Friday last (yesterday).

J. D. Fowlers, Esq., in the chair.

The SECRETARY (Mr. W. Routh) having read the notice convening the meeting, the following report was submitted:—

November 13,911

Becember 1, 13,911

Beta January 1, 16,321

The produce of the 12 months, ending February, 1847, was 154,984 offavas. The net profit on the working of the mines, for the year ending the 297 hebruary last, has been the 31st December last, was 4622 sugare shines—via. 2 tinted Mines, 227-91; damba, 397-1; and Gachodra, 197-0; at the end of 1846 it was 415 fathoms. The amount of grout the 31st December last, was 4622 sugare shines—via. 2 tinted Mines, 227-91; damba, 397-1; and Gachodra, 197-0; at the end of 1846 it was 415 fathoms. The amount of grout made from 28th Feb., 1847, 0 '50 th Reb., 1846, having been carried to the credit of the credit of profit and less, 12,467. '9a. 11d.

Gentle of the 20th Jan. last, 16,2921. 198- 11d.; out of which the directors have declared a half-yearly dividend (clear of homes has 70 of 12s. 6d. per share, 697-81; leaving at the credit of profit and less, 12,467. '9a. 11d.

Full and detailed statements of law progress of the undertaking in every particular, "The year 1847 has been one of more than unanl progress at Morro Velho, and will be a strength of the reports periodically published in the Mining Journal. It is, however, therein stated of "The year 1847 has been one of more than unanl progress at Morro Velho, and will be a made and the progress of the strength of the property of the establishmen—or whether viewed with regard to the increased production of gold, and consequent increased profits of the control of the prosperty of the establishmen—or whether viewed with regard to the increased production of gold, and consequent increased profits of the prosperty of the establishmen—or whether viewed with regard to the increased production of gold, and consequent increased profits of the administration of the lode, 46. 7 in. Now, how far the lode with a state of the prospect of a continuance of the supply of ore, Capit. Trelour, the load mines and the state of the

0- 13,875 0 0

Nr. R. S. Illingworth was elected a director.

From the statement of accounts there appeared—Balance from last account, 2421L 19s. 1d.; six-shipments of gold, 66,710L 5s. 1d.; interest, 149L 18; railway debentures paid off, 4000L—73,281L 17s. 2d.—Paid acceptances, 5000L fearls of agents in Brazil, 23,560L 18s. 3d; salaries in Eugland for Brazil, 23,560L 9s. 1d.; stores, 5919L 11s. 2d.; sending parties to and from Brazil, 2094L 14s. 6d.; dividends, 11,000L; insurance, 594L 0s. 2d.; hire of negroes, 2500L; income tax and sundries, 1182L 16s. 9d.; salaries and office expenses, 1387L 14s. 5d.—leaving balance at banker's and in hand, of 14,666L 1s. 10d.

1367. 148. 5d.—leaving balance at banker's and in hand, of 14,6664 is. 19d. The Charmana having observed that, if any gentleman present required any further information, he should be happy to give it, to the utmost of his power, Mr. Jaco called attention to the disproportion of the dividend to the amount of profits, between this year and last; the profits this year, in proportion to that ending February, 1847, should have produced above 11. per ahare, while 12s. 6d. only was declared.—The Charmana Rully explained this, by stating that this balance of profit was not all in cash; stores had been paid for and sent out, and after payment of the dividend the balance would not exceed 27884. It was highly necessary to have a reserve to meet casualties, such as an increase of water, a falling off in the quality and quantity of the ores, &c. Mr. Jaco put several other questions of minor importance, all of which were replied to satisfactorily.

Mr. Moans called attention to the large sum charged in the Morro Velho account for

LAMHEROOE WHEAL MARIA MINING COMPANY.

LAMHEROOE WHEAL MARIA MINING COMPANY.

A special general meeting of shareholders was held at the offices, Ringstreet, Cheapside, on Thursday, the 8th instant, for the purpose of foreiting shares in default, and on general business.

PETER DAVEY, Esq., in the chair.

The notice, which was in effect to forfeit such shares on which the calls may have remained unpaid, was read, as also the advertisement, or circular, convoning the meeting, with the power given by the purser to the secretary to act for hims, and on his behalf, as his absence, which, with all due descrence, we consider absurd; for, conducted as Endon companies are, under the Cost-book System, we would at once say, save your purser's sainty, and depute your secretary to act as purser; on this point we may have more to say next, week, when treating on the Cost-book System, which in this, as in other instances, we regret to say, is not fairly or fully carried out; however, let us proceed to the measures adopted by the meeting.

The Charman having referred to the proceedings at the meeting on the 27th April whereat a resolution was passed, declaring all shares forfeited, the calls on which should not be paid before a certain period—alumitted that this question was one to which the attention of the meeting should be first directed. It appearing, from the statement submitted to the meeting, that 119 shares were in default, of which running the meeting about the was envious to retain his interest—and who, indeed, had given his acceptance for the payment of a molety—it was resolved, that these particular shares should not be furfeited; while a resolution was arrived at, declaring the 51 shares upon which the call had not been paid to be absolutely furfeited.

From the statement of the Secarrany, it appeared that 80 shares had previously been confiscated, making the entire number 131, and thus reducing the number of shares to 1947. A general, although not discursive, conversation arose, in which Mr. Francis Davey took the most active part—that gentleman havin

have been done months since. He should, therefore, suggest that a call of 36s, per share, which would raise 3000., should at once be made, payable at such periods as the committee would deem fit.

In submitting this matter to the adventurera, it was very properly observed that, with a limited outlay, as regards the working or developing of the mine, the same monthly expenditure was indispensable, as affected the agency working of the engine, and other cotemporaneous expenses, which could not be estimated at less than 1007, per month, or 12007, per annum. With reference to the position of the company, in its financial affairs, it appeared the balance in the banker's hands was 1947, while the debts, or liabilities, did not exceed 2007. We do not deem it necessary to enter into detail as to the application of the moneys proposed to be raised, and shall hence close our notice of the meeting by referring to the resolutions passed thereat, which will be found in our advertising columns.

The following report from Capt. Tabb was read to the meeting:—

Lamberoee Wheal Maria, June 7.—The 30 fathom level, going east, is, just as last reported. We have been driving by the side of the lode, and have not as yet taken it down it is less expensive in so doing, as the lode at present is much harder than the killias; it is our intention to extend a few fins. farther before we cut into it. Davey's shaft sack to be sunk from the 30 to the 40 fm. level, and sink for fork, cut plat and cristern plaft, lift, jut in piece of main rod, case and divide shaft, and complete all work required at the given depth for the sum of 1807, and to have a premium of 64. If the bargain is completed by the end of September next. Orchard shaft was set to sink as deep as the 26 fm. level, and wink the above shaft; by taking those men now driving west in the 30 fm. level, to sink the above shaft; by taking those men men on driving west in the 30 fm. level to sink the above shaft; by taking those men, we shall not increase our cost, but develope that par

wine-shafts, with the exception of a planger-pole and case for the higher shaft, and doorpiece and working barrel for Davey's.

X SOUTH WHEAL TRELAWNY MINING COMPANY.

At a quarterly meeting, held at the offices, Birchin-lane, on Tuesday last, the 6th inst., the accounts were examined and passed, showing—Balance against the adventurers last account, 1181. 18s. 4d.; costs for February, March, and April, 4055. 9s. 7d. =5241. 7s. 11d. —By calls, 6407.—leaving balance in favour of mine, 1151. 12s. 1d., out of which there was estimated to be paid for May cost, 1807. A call of 40s. per share was made, payable to the purser immediately, or to Mr. T. Hacket, Birchin-lane.

The following report from Capt. W. Lean, was read to the meeting:

In handing you a report of the above mine, for the meeting to be held on the 6th met, you will perceive I am obliged to recapitulate, in some degree, former reports, to give a plain statement of what we have done and intend carrying out—viz: the engine-shaft is sunk 30 fam. below the adit level, divided and cased all complete; and last Saturday a plain statement of what we have done and intend carrying out—viz: the engine-shaft is sunk 30 fam. below the adit level, divided and cased all complete; and last Saturday langer-life, and leave sufficient depth below to resume the sinking of the shaft after the lode, in interaseted; by so doing, we shall be prepared for an increase of water, and to take it up in this level, and to sink the shaft comparatively dry afterwards; we have allowed the underly seen in the adit level. In our report of the 8th March last, we thought we should cut the lode about Midsummer—this could have been accomplished against time by leaving under the work in the shaft as above mentioned, which would have been anything but wisdom to neglect carrying out. The ground in the cross-cut is very four anything but wisdom to neglect carrying out. The ground in the cross-cut we was able to judge, the lode will be interesceted in the shaft as above mentioned, which would have

## WEST WHEAL MARIA MINING COMPANY.

The two-monthly meeting of shareholders was held at the offices, St. Michael's Alley, Cornhill, on Thursday last, the 8th inst.

CHARLES BAILEY, Esq., in the chair.

The statement of accounts was presented, showing—Liabilities due, March: 30th, 895L; costs for March, 117L 11s. 8d.; costs for April, 120L 15s. 7d. == 1132L 7s. 3d.—By payment, made on account of March and April costs, 178L 14s. 9d.; diction, on account of old liabilities, 244L 19s. 6d.: leaving balance, 709L 13s.—Balance at banker's, last account, March 30th, 305L 7s. 1d.; calls since received, 171l 10s. = 476L 11s. 1d.—By payments made by committee, as per statement, 423L 14s. 3d.: leaving balance at banker's, 52L 16s. 10d.—The accounts having been examined, were unanimously adopted—and a call of 5s. per share made payable, immediately to the London Joint-Stock Bank, to the credit of the committee. Messrs. Coode, Browne, and Kingdom, were instructed, on behalf of the creditors of the company, to proceed against all parties in arrears of calls.

structed, on behalf of the creditors of the company, to proceed against an parties in arrears of calls.

The following report from Capt Rodda was read to the meeting:—

June 7.—The western engine-shaft is down to the 74 fm. level, and I should imagine we shall intersect the lode from this level in a fortelight from this time; the present uncongenial appearances of the strata does not give me very sangular expectations of cutting the lode rich in this level; nevertheless, on reaching it, I should recommond driving on it both east and west for a few fass., in order to ascertain if there are not, as I suppose there are, some other lodes dropping into the one, on the course of which we have been sinking. Should the adventurers be desirous of sinking the shaft to the 90 fm, level, as intimated, what has been done at the present cross-cut would be more advantageous than otherwise, inasmuch as we must, of necessity, have cut a plat in this level; but it should be borne in mind that, should this be adopted, we shall find it almost indispensable that we should have a water-wheel, to be worked by the water from underground brought up by our engine, for the purpose of bringing, the stuff to the surface, or be put to the expense of at least 20s. for 100 kibbles, in drawing it by horses. The south lode, in the 34 fm. level, west or Vivian's shaft, is 18 in. wide, at present unproductive—ground favourable for driving; this I would recommend to be driven a few ims. further, in order to prove the lode, as the ground by the side appears more congenial for copper than it has hithered been.

WHEAL SOPHIA MINING COMPANY.

WHEAL SOPHIA MINING COMPANY.

A special meeting of adventurers was held at the Catherine Wheal Inn, St. James's, London, on Tuesday last.—Mr. A. T. Ghainsoff in the chair.

Mr. W. T. Barringer and Mr. Samuel Phipps were appointed to audit the accounts, which having been examined and approved (the report of Capt. Luke being previously circulated), the following report was read from Capt. J. Carpeter, of Wheal Anderton Mine, and proved highly satisfactory to the meeting.

Wheal Sophia Mine, May 31.—In accordance with your request. I have this sy is spected the mine, and find that an adit level has been driven west, on the course of a large copper lode, varying from 4 to 6 ft. wide, inclining south in depth, on an angle of 27°; its component parts are quarts, peach, prian, numdic, and impregnated with relayellow and variegated coloured copper ore of an excellent quality; its regularity, the whole distance driven, is what is not often seen so near the surface—not the slightest bretruption with cross-courses, or slides; and its general appearances and characteristics are such as I believe practical miners would pronounce to be above the echiant and the surface with the surface and the contraction and the surface and the surface and the surface and the surface with the surface and the surface with the surface and the surface and the surface with the surface and the surface with the surface and the surface with the su an increase of water, a failing off in the quality and quantity of the cress, ecc.

Mr. Acop this several other questions of minor importance, all of which were replied to satisfactorily.

Mr. Monais called attention to the large sum charged in the Morro Velho account for the passage of parties to and from Brazil—3848. 192. 7d.; while, in general, it did not exceed 390. or 600. per annum.—The Charashaw said, that they had to pay for bringing Mr. Keepf's family, of eight or nine children, out, to induce him to stop there; in addition to which, above 20 mechanics had been sent out, and as many came home, which had rendered this item unexampled in amount—which, however, the directors certainly could not help.—Mr. Schrisbers add, it cost, at least, for a person in any position of society, 500. for the voyage, which fully accounted for the samount.

Mr. Monais then entered into a long and desultory statement on the subject of the present mode of election for directors—deprecated the proceedings at the last election in Aprill—and proposed that the arising of the company should be carried on under a dead of trust, whereby a new mode of election for directors and properties; and design such work, shows elsery that your stands of the company should be carried on under a dead of trust, whereby a new mode of election should be adopted. No person, however, was found to second the motion, and the subject dropped.

Mr. Addrewby and the subject dropped.

Mr. Andrewby and the subject dropped.

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Mr. Andrewby and the subject dropped for Mr. Chrassay when the subject of remains of the company should be carried on the subject of the largest shall be subject to the subject of the largest shall be subject to the subject of the largest shall be subject to subject to the subject of the subject of remains of the subject of the subject of the dar

JOINT-STOCK COMPANIES AND CORNISH MINES.

JOINT-STOCK COMPANIES AND CORNISH MINES.

Sex.—It is much to be regretted that so many people in this world speak without thought, and write without knowledge. Your Truro correspondent belongs to this latter class. I can issagine, from the constitution of his mind, that he is little acquainted with what is noble in thought, or dignified in action, or he would not impute the exercise of the legislative function—the highest and most escred delegation—to the influence of personal feeling, or of private revens. An individual of such a mental complexion will readily, aither from his ignorance, or from interested motives, state that which is untrue, and, for his bad purposes, argue from the false premises as if they were received truths; but that the intelligent Editor of the Mining Journal should have adopted the fallacy without investigation, I can only attribute to the Editor receiving the letter of his Truro correspondent at a late period of the week; and as he, no doubt, thought the subject of much importance to his readers, and that the statements contained in the letter were correct, he at mose commented upon these without inquiry, and I am afraid without so much sereading the bill, which is the subject of his own and his correspondent's visuperation. But where are the facts? The 7th and 8th of Vic., c. 110, is inflittled, "An Act for the Registration, Incorporation, and Regulation of Joint-Stock Companies;" and clause 64 exempts all mines worked upon the Costook System from the operation of the Act. An Act was subsequently passed—the 8th of Vic., c. 8—intituled, "An Act for the winding-up the affairs of foint-Stock Companies unable to meet their pecuniary sengencement," but, as shis Act was not efficient in its working, an Act was brought in by Mr. Milner liboon, in July, 1847, to amend the 8th Victoria. This bill passed through the committee; but the dissolution of Parliament provented the completion of the legislative form, and the bill did not become a law. At the commencement of the present session, a mor

ducad by Mr. Gilson. This bill has passed through the Commons; and it was into this bill that I introduced a clause, that "All sesociations, or companies, Former for working mines or minerals, shall be liable to the operations of this Act."

1. As to the mode in which this clause was introduced; and, 2d, as to its intention.—This clause was not smuggled into the bill, as your correspondent's, and your own remarks, would seems to imply; but a notice of my intention to introduce this clause, and the words of the clause itself, were printed amongst the notices of motions, for at least a fortnight before the third reading of the bill. During that time, it was reprinted several times amongst the Parliamentary notices, and also in the London newspapers, which generally, on Monday morning, print the notices of motions for the week. All possible public notoriety was, therefore, given of my intention to introduce this clause, and that it was well known, and the effects of it well understood in some places, is testified by my receiving several letters upon the subject from different parts of England, and all of them approving of the clause. I had several conversations with Mr. Miner Gibson, who has charge of the bill, upon this subject; and, in the first instance, he thought that all mining companies would come under the operation of his bill, and stated to me, that such was his intention; but subsequestly Mr. Milner Gibson, and the law officers of the Crown, thought it well that this clause should be inserted. Thus the bill, and the clause to which you object, were before the country long enough for those interested in mining pursuits to make any objection, if they had any to make; and, I presume, the Members for Truro, "who lay claim to the especial duty of watching over and protecting our mining interests," were so astisfied with the prospective beneficial working of the proposed clause, that neither from their own judgments, nor the representations of their constituents, did they offer any implement to the enactment;

thousands of the mining population, and inflicted a serious blow upon the commerce of Corawall.

I hope, Sir, that both yourself and your Truro correspondent have now read the bill, and that you have found I have not deserved your censure. I differ very widely from yourself upon the repeal of the duties upon copper ores; and the labour I have undergone, and the sacrifices I have made of many personial friendships, upon this question, must convince you that, although I may be mistaken in my views of this policy, I am anxious to protect, as far as I can, the well-being of the Cornish miner, and the interests of the county of Cornwall.

House of Commons, June 6.

James Wyld.

CORNISH MINES AND THE JOINT-STOCK COMPANIES' BILL.

CORNISH MINES AND THE JOINT-STOCK COMPANIES BILL.

Sin,—From the tenor of an article in the last Mining Journal, and from a etter contained in the same paper, I am led to believe that there has been ome misapprehension as to the object of the bill to which Mr. Wyld's amendment applies. That bill calls itself the Joint-Stock Companies Bill, when, in et, it is the Joint-Stock Companies' Dissolution Bill. I can perceive nothing a it which will affect the Cornish mines for good or ill; and I am confirmed a that opinion by a gentleman of great authority in mining concerns, whom often consult. Had there been anything in the bill tending to put the Jornish mines on the same footing as joint-stock companies, in respect to reinstration, the transfer of shares, &c., of course Mr. Wyld's amendment would awe been opposed.—C. Lemon: Charles-street, Berkeley-square, June 5.

Some remarks on the subject of these letters appear in another column.] remarks on the subject of these letters appear in another column.]

## CARADON CONSOLS MINE.

Srr.,—Can you info at me, when the final dividend of the assets of this mine will be made? There is some extraordinary circumstance or other acting as an impediment to the settlement of this affair, which it would be well for the Sin,—Can you into a me, when the mai dividend of the assets of this mine will be made? There is some extraordinary circumstance or other acting as an impediment to the settlement of this affair, which it would be well for the parser to explain. I take it for granted, that he is above doing anythe group in the matter; but surely, after so long a time has elapsed, it ought to be settled immediately, and a correct balance-sheet transmitted to every shareholder. If this be not speedily done, a meeting of the shareholders must be called, to consider the steps necessary to enforce an early settlement—verbum set.—Scitator: June 7.

GREAT WHEAL MARTHA MINE.

GREAT WHEAL MARTHA MINE.

Siz,—No doubt you recollect that, about a year ago, the shareholders of the Great Wheal Martha agreed to a plan for raising new capital to work the mine, by the issue of "preference shares"—the holders of which were granted considerable advantages by the old shareholders; but both parties were likely, indeed, to be benefitted by the arrangement entered into. The first call of 1½ per share was made by the directors, and responded to by myself and others; and I understand that, eventually, it was paid on all the shares, although the whole were not allotted in the first instance; but about two months after this, and without making another call, the directors, in a most unaccountable manner, called us together again to discuss and to endeavour to get us to agree to another plan for raising capital—urging, as the ostensible reason, that the former one would not produce sufficient funds! Whose fault was that, had it been the case? The estimates were their own; and they could or ought to have calculated the utmost they would require at first, when they could have get the money more easily. But the consequence was, that, when they proposed the second plan, without giving the preference shareholders, who had paid 1½ per share, any value in the new company for what they had paid on the faith of the former agreement, every one so objected to their conduct, they failed in their attempt; and by your Journal I observed, a short time ago, that the materials were advertised for sale. Now, without going minutely all the distinctions would likely be such as to justify the adventurers in proceeding further. The funds proposed to carry out cartain workings, and which he considered would lead to a successful result—or, at all events, that the indications would likely be such as to justify the adventurers in proceeding further. The funds proposed to be raised by the preference shares were sufficient for this; and I cannot see upon what grounds the directors determined to sink 40 fms. at the new mine (that i

hoklers; and that, by their mismanagement, they have deprived us of all chance of recovering the immense sum spens—the sett being considered very promising. If you will do me the favour of inserting this letter in your valuable Journal, it may call forth the opinions of some more of the unfortunate shareholders; for I consider that the directors are liable to refund us the 1L per share we paid upon our preference shares.

A SHAREHOLDER, June 8.

per share we paid upon our preference shares.

Jane 8.

WHEAL CURTIS MINING COMPANY.

Sin.—In looking over your last two Journals, I am astonished at the report you give of the Wheal Curtis Mino—a mine, ever since it was determined to re-commence working, you have invariably spoken of in the highest terms, and the adventurers always looked forward to having a prosperous and dividend-paying mine; but now, with 3½ 10s. per share paid up, you inform them they are in a state of bankruptcy. I am sorry to say, I think "there is something very rotten in the state of Denmark" with respect to mining, and not very much unlike swindling the adventurers out of their money. It seems to be a common practice to puff off mines in the papers (witness Dartmoor, and several others I could name now defunct), to pay cost in a few months, with only a portion of the subscribed capital to be paid up, in order to catch the young adventurer; but as soon as the promoters of the undertaking have succeeded in precuring the requisite number of shareholders (themselves holding the lion's share, as in Wheal Curtis), and not able or inclined to pay up the calls upon those shares, and the greater amount of capital having been paid up by the body of shareholders, and all devices having failed, by issuing preference shares, &c., the bubble bursts, and the adventurer finds himself done out of his money, and, perhapa, hable for a large amount of debts, over which he had no control, and not instrumental in creating, and without redress. This, and this only, in my opinion, in which many concur, is the reason that mining is in such bad repute amongst capitalists. Mining capitains and agents ought to be very careful when they report upon the qualifications of a mine, and not lead adventurers astray, by making a very flaming and flowery report, to please the promoters of a very questionable and doubtful scheme. Hoping you will take up the above subject with your powerful pen in your next Journal, and give insertion to it, I must spologies for the length

TUTWORK AND TRIBUTE.

Sir.—I am quite aware that too much has been already said on this question—indeed, when the letter of "Mine Agent of 22 Years' Standing "first appeared, I thought the subject too ridiculous to be noticed in your columns; as, however, so much has been written on the question, tending to mislead, I ask the favour of being permitted to make a few observations in explanation. This "Mine Agent," as well as many others of long standing in Devon and Cornwall, must remember that the plan, now brought forward as new, is nothing more or less than an old and long since exploded plan, which was fully tried 30 years since, and signally failed; among the mines where it was tried were Wheal Friendship, Lanescot, and others; but it was not acted on more than six months, and during that time the captains had enough of it—private bargains were being set all the month round, in consequence of contracts being thrown up, which were taken at less than a fair price at the survey. It was soon found that all the good steady hands were being driven away, and their places supplied by scamps and vagabonds from the surrounding districts, who would take bargains, steal the powder, candles, &c., and never work at all. The agents were afraid to venture out of doors after dark, and almost frightened to go underground for fear of ill-usage. These are facts which are well known in the neighbourhood to have arisen from the adoption of the system; and, as to the fairness of the plan, I consider it of an equally cheating character as when a dealer asks a certain price for a watch, silk handker-chief, or other commodity, and afterwards consents to take one-half—it is, in fact, still worse to offer a poor man only half the fair price for his labour, when, with all his exertious, he can scarcely obtain bread for his family. The average gettings of miners in the counties of Devon and Cornwall fully show they are not overpaid, even with the hurdest work. I could enumerate many evils attendant on this proposed system, but you and yo TUTWORK AND TRIBUTE.

THE "DIVINING ROD."

In the course of Mr. Hunt's lectures, on the "History and Practice of Mining in the British Isles," published in the Mining Journal in the early part of the present year, he referred to the discovery of lodes by the divining rod, and several letters from correspondents thereon were also inserted in subsequent Numbers. We have this week received the following interesting details of the apparently successful use of the ridiculed and almost obsolete practice of dowsing with the divining rod:—"Tell unbelioving R. W., when you next see him, that I have witnessed the operation of life divining rod, in a manner most conclusive and satisfactory to my own mind. I went, accompanied by Mr. H., first to Wheal Jane, the underground captain of which is what they call a dowser. He ordered one of the men to cut half-a-dozen withes, of the requisite shape, from a neighbouring hedge; and we then proceeded to a field, across which the lode lay. We each held a rod, and walked abreast, the captain in the middle. Upon crossing the lode his rod bent downwards, and, to my surprise and delight, I felt, at the same time, mine pressing against the flesh of the finger, when it went down gradually from being perpendicular to horizontal, but would not go lower. Mr. H. remained perfectly stationary! We tried it again and again with the same result—the captain's, however, going lower and more freely than mine. We then went to another mine beyond Perran, and sent for a labouring miner from underground, who is a celsbrated douser. We had another gentleman, a Mr. C., with us, an old farmer, a clerk of this mine, and myself—thus making six, all armed with rods. On crossing the lode, the douser's rod went down like a shot, completely inverted! Mine went down gradually, but its pressure was quite perceptible, until one of the limbs of the rod, close to my fist, actually broke off, from the mysterious force in operation. Now, holding my hands perfectly still, and grasping each limb of the rod, it is impossible to move it downwar If he wants more: we blindfolded the douser, and took him over the field in every lirection, backwards and forwards, somethmes pretending we were near the lode. But no; it moved not—but immediately we crossed it, down it went.

## TRENANCE MINES.

The following is the general report for May month, and settings for June:—

No. 1. The deep adit level to drive south as directed, by 4 men—1 fm. in extent, at 6/. por fm. This level has become softer with an additional quantity of water; and, as may be seen, is let for 10s, per fm. less than last month. The air has become very bad—we expect shortly to have a change of ground. There is no appearance of ore.

No. 2. The deep adit level to drive north as directed, by 8 men, 2 fms. in extent, at 3/. 3s, per fm. This end has become better for driving, with a soft vein of steatite, or white sparry clay. It would have been let for less amount this month, had not the length of distance which the stuff has to be brought become so great. We may now hear the men above in the 12 fm. south-west level (Dalton) working very distinctly.

No. 3. The 12 fm. south-west level (Dalton) working very distinctly.

No. 3. The 12 fm. south-west level (Dalton) to stope up as directed, by 2 men, 2 fms. in extent, and no allowance for getting the ore, at 2/. per fm. In last month's report it was mentioned that we had stopped the driving further of this end, and had commenced stoping it up; and, in my last letter, that we had laid bare, and was working on, the side of a fine quantity of malleable horselesh and gray ores. On Monday last, we began to take up, and, on that day and ending Tuesday evening, we got to grass upwards of 2 tons, out of which 12 cwts. is malleable copper and horselfesh ore; we have also raised, and which is now lying in the 12 fm. level (Dalton), one solid piece of malleable copper, with portions of horselfesh ore; we have also raised, and 30 cwts.; which, we may fairly eay, is the largest and heaviest piece of malleable copper, with portions of horselfesh ore; we have also be to even 10s and 30 cwts.; which, we may fairly eay, is the largest and heaviest piece of malleable copper, with portions of horselfesh ore; we have a laso to break it up more than we have done in the level, and even to get it in the state in wh

tackle to get this lump of malleable copper out of the mine, as it is impossible to break it up more than we have done in the level, and even to get it in the state in which it is we have had two shots set in it. Could we conveniently have preserved it whole, it would have measured not less than 25 ft. in length.

No. 4. A winze to sink from the 12 fm. level (Dallon) as directed, by 9 men, 1 fm. in extent, at 52. 10s. per fm. In my letter of the 24th May, it is noticed our being drowned out from this pitch, and that we placed the men in the Maria shaft; since then I am glad to inform you, that the water has so much decreased in this wince as to allow as toccommence sinking again; we have, therefore, given up the Maria shaft for the present, and have placed our greatest strength to this part of the mines (nine men sinking and eight men driving to meet them), for the reason that the appearances are of a most extraordinary nature. I am very santous to have the winze sunk, and the 20 fm. level north driven up as quickly as possible, and before the half-yearly meeting; the water is not so very bad, and I trust we shall without much bindrance. There is a fine course of malleable and grey ore as the bottom of the winse, which may increase; and, from the appearance of the angle of inclination (from the south-west level 12 fms. from Walton), we may be led to conclude that it is a continuation (deeper) of the same lode. The Maria shaft, when given up, was very hard, sinking through not so much water as before—there was no appearance of ore at the bottom. The quantity of ore raised this month, ending on Saturday last, or the setting day, may be estimated at 10 cath. as arised. An estimate, or valuation, of the materials shall be taken, ending last Saturday night.

June 7.

P.S.—This company has lately sold to the Mines Royal Company a parcel of malleable copper, at 7d, per 1b.

[It will be perceived, by the ticketting paper of this day, that a percel of ore, 15 tons, from this mine was sold, on Thursday last, 9 tons of which produced 194. 0s. 6d. per ton—the whole realising 2004. 9s. 6d.]

LEUDS AND THESK RAILWAY.—That portion of the Leeds and Thirsk line, extending from Thirsk to Ripon, has been formally opened.

# Current Prices of Stocks, Shares, & Metals.

Bank Stock, 9 per Cent., 191 3
3 per Cent. Reduced Ann., 822 4
3 per Cent. Consols Ann., 844 5
3 per Cent. Consols Ann., 845 6
Chillan, Brazilia
Long Annuites, 8
4 Continues and Consols for Acc., 844 5
3 per Cent. Consols for Acc., 844 5
5 part Cent. Consols for Acc., 844 5
5 Exchequer Rills, 10001. 2d. 38-40 pm.

Ditto

Mines.—The amount of business transacted in the mining share market this week has been unimportant; nor has any of the negociations, referred to in our last, yet come off; but if we can place any estimate upon these inquiries, we may, however, calculate on a fair proportion of business before our next publication. South Caradon bi-monthly account was held on the 30th of May, when a dividend of 10L, per 128th share, was declared—leaving a balance of 1641. 19s. to the credit of the company.

An improvement in Great Rough Tor has produced a considerable inquiry for them, but we are not advised of many transactions.

Business has been done in Tamar, Herodefoot, Mary Ann, Trehane, Trelawny, Gwinear Consols, Great Wheal Rough Tor, Devon and Courtenay, South Basset, West Providence, Camborne Cousols, West Wheal Treasury, Tincroft, Cwm Erfin, Mendip Hills, &c.

The committee of management of South Trelawny have made a call of 22 per 256th share this week

A meeting of the Lamherooe Wheal Maria adventurers was held on the 8th inst., when a call was determined on of 30s. per share, or 3000l, with the object of prosecuting the operations of the mine by sinking the engine-shaft—thus evidencing the opinion entertained by the adventurers of the value attached to the adventure.

The transactions in foreign shares have been but limited, and appear confined. Minus.—The amount of business transacted in the mining share market this

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widencing the opinion entertained by the adventurers of the value attached to the adventure.

The trusactions in foreign shares have been but limited, and appear confised to a few Asturians, Australians, St. John del Reys, and United Mexicans.

The Asturian Mining Company have received letters since our last notice, representing the progress at the iron furnaces as very satisfactory, as well as the returns from quicksilver.

Imperial Brazilian Company is advised to April 18th. The pitwork, &c., had not arrived at Bananal, but arrangements were made for their conveyance. The returns from Gongo Soco, up to that date, was 9 lbs. 9 ozs. 1 dwt.

St. John del Rey Mining Company held their eighteenth annual meeting yesterday (Friday), a report of which will be found inserted in another column. The reports from the mines are of a very satisfactory character, and present a considerable improvement in their general prospects. The balance-sheet extends from the 31st of May, 1847, to the 7th of June, 1848; and shows the receipts to be 73,2811; consisting of balance from last account, 24211. 19s.; proceeds of six shipments of gold, 66,7101. 5s.; railway debentures paid off, and interest, 41491. 13s. The expenditure, in acceptances, drafts of agents at the mines, salaries in the country and at home, stores, hire of negroes, two half-yearly dividends of 11,0002, income tax, balance at banker's, &c., of 14,6661., and other contingent expenses, balance the account.

The instructions from the directors to the superintendent of the mines, relative to the negroes in their employ, have been of a benevolent, enlightened, and humanc character, and the extracts, which will be found in our report of the meeting, merit especial notice.

Since our last, the following arrivals of specie have been announced: -3d June, at Southamnton, the Royal West Indian Mall steams him. Scorra, having on freight 8107 on freight

meeting, merit especial notice.

Since our last, the following arrivals of specie have been announced:—3d June, at Southampton, the Royal West Indian Mall steam-ship, Severn, having on freight \$107,000 on merchant's account, 9466 cas. of gold dust, 22,740. In British coin, and silver bars—total value of specie and bullon, 80,6401. Abo, 17 packages of platina and general cargo. Also, at Southampton, the same day, the Peninsular and Oriental Steam Navigation Company's slip, Madrist, having on freight 29 packages of gold and silver coin (value 13,700.). On Tuesday, at Liverpool, from New York, the Royal Mall steam-ship, Cambria, having on freight specie to the value of 75,000... On Wednesday, at Southampton, the Peninsular and Oriental Steam Navigation Company's ship, Tayas, with an unusually valuable freight, and 459 packages of gold and silver coin, value 213,0000. We have to notice the following arrivates of specie, silver ores, copper, and copper cross, Sec, in the port of London during the week—viz.: e Horsburgh, from Coquimbo and Guaya-quil, 30 packages of dislars, to bars of platina, and 13,052 ingots of copper; ex Lady Mary, from Valparaiso, 384 bars of copper, 87 bags of copper grains, and 124 packages of silver ore; ex Blue Bel, from Algos Bay and the Cape of Good Hope, 2 kegs ann 2 boxes of specie, ex Hamlet, from Sydney, I case of silver or ex Tuelor, from Galeutta, 20 boxes of specie, consigned to the East India Company; ex Harlwaya.—During the first two days of the week, the share market partons of the sme della day to the part of the part of the packages of the week. The start finds company; ex Parange, from Valparaiso, 719 bars of copper, 45 tons of copper regulus, and 1529 packages of dilary ore; ex Euchts Sowerian, from Port Adalaida, 300 tons of copper, and lead ore, RALEWAYA.—During the first two days of the week, the share market partons of the same dull and two character as its closed with leaves the week.

ages or siver ore; ex Drums sowregm, from row Ademate, sou tons of copper and lead ore.

RAILWARE.—During the first two days of the week, the share market partook of the same dull and tame character as it closed with last week. On Wednesday, however, the report of the capture of four of the Charitst leaders imparted a considerable degree of considerable frimmers. The home funds exhibited a steady tone, which evidently imparted a firmer aspect to the share market; and business closed yesterday with somewhat better

prospects.

HULL, TRUBSDAY.—Shares are dall and declining—the old stocks especially, owing the calls and issues of preference shares, as a means of raising capital in the absence of borrowing facilities. If the Government would only offer to assist railways by loans, it would inspire confidence in these undertakings—induce private capitalists to lend them money, and thus afford employment to thousands willing to work, but who now swell Chartist meetings, because they are starving and neglected.

RAILWAY TRAFFIC RETURNS.

Name of Railway.	Lgth.	Present ac-	Price	Last	Traffic	Returns.
stante of statemy.	Rway.		pershare		1848	1847
Birkenhead, Lancashire,& Chesh.	15	997,284	87	5 p. c. *	£ 785	839
Caledonian	130	3,594.470	31	-	-	-
Chester and Holyhead	59	2,871,470	22	-	764	-
Dublin and Drogheds		754,529	234	-	806	994
Dublin and Kingstown	71	473,289	-	6	1424	1421
Dandee, Perth, & Aberdeen Junc.		415,073	281	8	901	402
East Anglian (Lynn to Ely)	551	1,062,742	72	-	100	-
East Lancashire	26	1,733,915	181	-	999	1356
Eastern Counties and Norfolk	295	9,833,859	14	4	14718	13596
Eastern Union	511	979,926	20 .		1217	1128
Edinburgh and Glasgow	53	2,481,767	90		3430	3655
Edinburgh and Northern	29	1,392,092	18	4*	1485	-
Glasgew, Paisley, and Ayr	641	2,097,321	721	6	2249	2709
Glasgow, Paisley, & Greenock	23	845,554	154	4	1113	1264
Gt. Southern & Western, Ireland	1101	1,809,787	221	4*	2193	1358
Great Western	2812	10,970,636	904	7	20551	21355
Kendal and Windermere	101	169,888	23	-	160	
Lancaster and Carlisle	70	1,395,193	491	4	1889	1756
Lancashire and Yorkshire	136#	7,597,618	86	1	9248	111463
London and North Western	428	21,513,354	1344	8	42034	45994
London and Blackwall	4	1,241,061	41	15	1202	1579
London, Brighton, & South Coast	1611	6,087,822	81	4	8607	10941
London and South-Western	189	6,264,164	478	0	8780	9659
Londonderry and Enniskillen	144	145,135	16	_	139	118
Manchester, Sheffleld, & Lincolnsh.	62	2,336,624	603	5 .	2521	3185
Maryport and Carlisle	28	440,851	40	-	534	609
Midland Company	4226	9,853,122	102	7	19172	23921
Midland Great Western (Irish)	. 364	725,332	101	40	1068	20002
Newcastle and Carlisle	661	1,407,375	111	6	2012	2343
North British	81	2,800,748	214	8	2188	1940
Shrewsbury and Chester	17	780,272	154	-	606	479
South Devon	501	1,609,071	92	-	1471	787
South-Eastern	1654	6,932,181	241	61	8368	10386
Taff Vale	38	820,056	126	5	1555	1607
Ulster	36	684,684	52	4	749	771
Whitehaven Junction	12	147,095	7	71 1	167	284
York, Newcastle, & Berwick	2431	4,466,526	32	9 1	12034	9362
Tork and North Midlend		3,799,297	69	10	8181	6430
	EIGN	Transfer of the Party of the Pa			0101	1 0100
miens and Boulogne	751	573,388	61	4 1	1142	1 -
Intwerp to Ghent (monthly)	31		-	-	-	-
farseilles to Avignon	714	-	- 83	- 1	997	-
Jutob Rhenish	57	-	1	-	1300	1627
Worthern of France	211	2,000,000	41	4	11553	11508
orleans to Bourges (Central)	1074	-,000,000	-	_	1746	1.000
Orleans to Tours	72	600,000	321	4	2554	3150
Paris and Orleans	82	2,011,720	224	124	6928	8135
Paris and Rouen	85	2,082,916	154	111	5757	8074
Rouen and Harre	591	2,002,310	74	54	1398	2981
trasburgh and Basie (monthly)	88		6	15	6170	7498-
	99			78	878	1400.
West Flanders (ditto)	- 1		4 . 1	- 1	010	_

COPPER MINERS' COMPANY.—In the Vice-Chancellor's Court, yesterday, are injunction was moved for, to restrain the company from parting with the bills of lading of the ships, the Earlof Uxbridge, the Xerxes, the William and Jane, the Riles, the Catherine and Maryaret, the Unity, and the Hero, without the plaintiff's consent—the bill and the affidavit in support of the motion stating that the defendants had agreed to give the plaintiff a security on the bills of lading of a portion of the iron shipped from the works.—The Vice-Chancellor grapted an interim order till Thursday, with leave to give notice of motion of that day.

The British Association.—A report has been circulated this week, that "up to the present time, there were no visible signs of progress in the preparations that are necessary to afford that distinguished body such facilities and accommodation as are requisite for carrying out the objects of this great scientific gathering." We are requested to state that such is not the case. Facts will speak for themselves—therefore, it is right that a false impression should not go abroad. We are glassic to say, that every preparation that can be made has been made, and that most satisfactorily, up to this time. Trinity Chapel, which will contain upwards of 2000 persons, has been kindly provisions for the occasion; and ample accommodation has been provided for holding the sectional meetings. In addition to which we can bear testimony to the fact, if it were required, that the local secretaries have been, and are still, most indexing able in procuring local aid, and in completing those arrangements which are so essential to furnish the requisite accommodation for a essentific body so distinguished.—Cambrians.

Had Storm mark

ANK OF BRITISH NORTH AMERICA—(Incorporated by Royal Charter.—The court of directors hereby give Notice, that a HALF-EARLY DIVIDEND, at the rate of 5 per cent. per annum, on the capital of the bank, will be PAYABLE to the proprietors of charser registered in this country, on and after he 5th of July next, at the office of the corporation, 7, 5t. Helen's-place, lithopagate-treet, between the hours of Ten and Four.

No transfer can be made between the 15th inst and 5th proxime, as the books minst be losed during that period.

By order of the court,
7, 8t. Helen's-place, London, June 7, 1848.

G. DE B. ATTWOOD, Secretary.

POURDRINIER'S PATENT SAFETY APPARATUS, for PREVENTING ACCIDENTS IN MINES AND OTHER PLACES,
By the ADDPTION of this INVENTION the LIVES of the WORKING MINERS may be PRESERVED, and the PROPERTY of the MINE OWNERS PROTECTED from the serious consequences of either of the following accidents—vis.:

1. Froin the men, or the load, being precipitated to the bottom of the shaft when the rope or chain breaks: in this case the apparatus is self-acing.

2. From either the men, or load, being drawn over the pulley: in this case, also, the apparatus is self-acing.

3. From the Searful consequences to men or load of a "whir)," or run: in this case the result is equally certains.

C

the result is equally crisically an interest of the CAGE, is daily a COAL PIT, with the SAFETY APPARATUS ATTACHED to the CAGE, is daily a WORK near BURSLEM, in the STAFFORDSHIRE POTTERIES.

To inspect the apparatus, or to obtain any further information, application may be made to Mr. Edward N. Fourthinier (the patentee), Chedileton, near Leck, Staffordshire; or to Mr. Joseph Fourdrinier, 68, Arlington-street, Camden Town, Loudon—who are prepared to GRANT LICENSES for the USE of the PATENT.

			The second secon
PRICES	OF	MINING	SHARES.

PRICES OF A	INING SHARES.
BRITISH MINES.	BRITISH MINES—continued.
Shares. Company. Paid. Price	Shares. Company. Pa Price 1100 South Dolcoath 3 24 256 Sth. Friendsh. Wh. Ann 16 25
512 Albert Consols 1 21	256 Sth. Friendsh. Wh. Ann 16 25
1024 Alfred Consols 44 8	
235 Andrew and Nangiles 254	256 South Molton 5 8 256 South Tolgus 71 35
235 Andrew and Nangiles 281 · 8 1000 Antimony and Silver- Lead Mining & Smelting 3 · 54-6	256 South Trelawney 20 10
1024 Billieswichell	128 South Wheal Basset 110 95
	256 South Wh. Betsey 24. 124 124 South Wh. Frances 160 210
1000 Barristown 44 3	1000 South Wh. Maria 21 11
1000 Banwen Iron Co.   24   3   4000 Bedford   22   3   1244 Birch Tor Tin Mine   94   2   3   1244 Birch Tor Tin Mine   50   23   100 Botallack   175   80   12	200 South Marvannan 30 25 255 South Molton 5 8 256 South Tolgus 7 2 36 255 South Trelawney 30 10 128 South Wheal Basset 110 55 255 South Wh. Betsey 2 2 12 124 South Wh. Frances 160 210 1000 South Wb. Maria 2 2 12 1000 South Wb. Maria 2 2 12 1000 South Wb. Maria 2 2 12 260 Spearne Moor 30 40
9000 Blacayon 50 23	280 Spearne Moor 30 40 256 St. Austeil Consols 9 6
100 Botallack 80	94 St. Ives Consols 320
120 Brewer	
- Ditto ditto, scrip 10 10	1000 Stray Park 43 . 16
120 Brews 1000 British Iron, New, regis. 10 13  — Ditto ditto, scrip 10 10  128 Budnick Consols 524 35  126 Callestock 17 30  1000 Callington 19 27	959 St. minver Consols 1 . 6 6 1000 Stray Park 43 . 16 9600 Tamar Consols . 3 . 54 1024 Tavy Consols . 4 . 8 6000 Tineroft . 7 . 6 6 1000 Tineroft
128 Callestock	1024 Tavy Consols 4 8 6000 Tincroft 7 6
20 000 Cameron's Steam Coal 0 01-0	1000 Tin Vale 24- 41
256 Caradon Copper Mine 91 2 256 Caradon Mines 221 17	128 Tokenbury
256 Caradon Mines 224 17 256 Caradon United 24 5	956 Troligano 94 95
256 Caradon Wh. Hooper XI 14	5000 Treleigh Consols 6 22
1000 Carn Brea 15 90 3000 Carthew Consols 12 6	2000 Trenance 2 50 96 Tresavean 10 210
2048 Cascade	120 Trethellan 5 . 16
112 Charlestown220 30 166 Cleveland 9 5	120 Treviskey and Barrier 130 - 100-5
5 to G 41(4) - 17(1)	288 Trevean
1900 Combnartin 71 8 500 Comblawn 54 6	100 United Mines 300 350
128 Comfort 45 50	256 Wellington Mines 15 25 128 West Basset 45 25
256 Condurrow 20 28	956 West Curedon 90 90
2560 Cook's Kitchen 14 2	128 West Cargoll 2 12 512 West Fowey Consols 40 15
256 Condurrow 20 28 2560 Cook's Kitchen 14 2 2500 Coombe Valley Quarry 21 32 6500 Cornish Mining Co. 2 24-4	128 West Cargoll 2 12 512 West Fowey Consols 40 15 256 West Providence 9 12
	200 West Seton 40 160
225 Craddock Moor 162. 12	- West of Scotland IronCo. 210 210
1024 Cosheen 4 20 225 Craddock Moor 16 12 226 Creeg Braws 120 100 500 Cubert Mine 124 10	956 West United Hills 5-6
	512 West Wheal Frances 11. 5 256 West Wh. Friendship 9 8 3725 West Wheal Jewel 11 12
300 D. Prior & Buckfustleigh 14 26	a725 West Wheal Jewel 11 12
7100 Derwent	2560 West Wh. Maria 3 1 256 West Wheal Tolgns 212 5
1024 Devon Great Consols 1 210	
1024 Devon Great Consols 1 210 1000 Dhurode 2 5 186 Dolcoath 80 15	5200 Wicklow Copper 5 10
2560 Drake Walls 4 4	184 Wheal Adams 51 10
3000 Durham County Coal 45 9	256 West wheat riceasty 1
256 East Alvenney 10 121	256 Wheal Allen 2 5 240 Wheal Anderton 21 20
112 East Caradon 47 47	128 Wheal Ann
2048 East Crowndale 54 42 512 East Combe Silver-Lead 62 64	512 Wheal Anna Maria 44 . 54
128 East Pool 5 10	1024 Wheal Ash 41 8
100 East Relistian 22 40 9000 East Tamar Consols 1	120 Wheal Barbara 12 4-5 2560 Wheal Barbara 12 4-5 256 Wheal Benny 12 7 256 Wheal Blenow 21 5 256 Wheal Bucketts 20 5
- East Wheal Albert 1 3	256 Wheal Blencows 21 5
94 East Wheal Crofty 125 280	256 Wheal Bucketts 20 5
1024 East Wheal Friendship 3 34	986 Wheal Calstock h 12
	1024 Wheal Coad \$ 5
2048 East Wh. Rough Tor 2 East of Scotland Iron Co. 24 14	198 Wheal Courtenay 20
193 East Wheal Solon 14 10	6000 Wheal Curtis 3 1 256 Wheal Fortescue 64 5
256 Elborough	388 Wheal Franco 27 25
512 Fowey Consult 40 45	128 Wheal Harriet
6400 Gadair	- Wheal Lawrence 3t
4000 Gen.Mining Co.for Irel. 15. 14. 2048 Georgia Tin Mines 14. 14. 256 Gonamena 84 35	256 Wheal Louisa 81 . 8 112 Wheal Margaret 79 350
2048 Georgia Tin Mines 1‡ 1‡ 256 Gonamena 84 85	512 Wheal Mary Ann 5 12
128 Goonvrea 4 1	237 Wheal Mary Consols. 42‡ 5
128 Goonvrea 4 11 2444 Grambler St. Aubyn — 10	210 Wheal Prospect 4 7
100 Great Consols	120 Wheal Reeth 41 150 122 Wheal Rose 60 15 99 Wheal Seton 214 850
256 Great Resugga Moor 11 4 512 Gt.Wh.Rough Tor Con. 154 15	194 Wheal Sisters 321 19
812 Gt.Wh.Rough Tor Con. 151 15	256 Wheal Sophia 54 10
256 Gwinear Consols 7 8-10	128 Wheal Spearne 10 75 128 Wheal St. Ann 9 15
6000 Heignston Down, Con 4 21 256 Herodsfoot 18 27	
10000 Hibernian 121 12	550 Wheal Trelavny . 72 65 266 Wh.Tremaine(St.Ervan) 44 90 256 Wheal Tremaine (St.Ervan) 45 15 292 Wheal Tryphena 140 265 242 Wheal Venland 294 30 256 Wheal Volve (Perrans.) 60 184 Wheal Vyvyan 60 8
239 Hobb's Hill 6 3	256 Wheal Tremayne 35 15
827 Kirkendbrightshire 54 4	92 Wheal Tryphena140 265 242 Wheal Venland 292 30
2048 Lamherooe Wh. Maria 11 4	256 Wheal Vlow (Perrang.)
160 Levant 80	184 Wheal Vyvyan 60
1000 Towis 10 he !	256 Wheal Williams
3600 Llynyi Iron 50 50	FOREIGN MINES.
100 100 100 100 100 100 100 100 100 100	
acho Marke Valley 10 2	15000 Asturian Mining Co 13 14-2
& Slate Slab Co 5	12374 Ditto Subscription 25 24
20000 Merionethshire Slate 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6000 Barossa Range 2
128 North Fowey Consols. 37 . 34   100 North Pool	3000 Bolauos
100 North Pool 45 . 380 140 North Roskear 51 155	
256 North Wh. Abraham . 1 . 1	12000 Braziman inperia:
262 North Wh. Leisure 11 2 35000 Northern Coal Co 23 . 2	10000 General Mining Ass'n. 20 . 111-12
4000 Pennant	20031 Mexican Company 59 — 2000 Mexican & SouthAmer. 8 15
1000 Perron St George IIn 13 90	5000 Mocaubas & Cocaes 50 6
128 Perran Wh. Virgin 94 10	20220 [ Rl.del Monte, regis. ] 281 1

COAL MARKET, LONDON.

PRICE OF COALS FER TON AT THE CLOSE OF THE MARKET.

MONDAY.—Davison's West Hartley 14—Haring's Harriey 14—Holywell Main 14;
—N ow Tamfield 12 6—Ord's Redheugh 12 9—South Peareth 12 6—Tamfield Moor 13—Harvell 16 3—Hetton 16—Lambton 16—Morson 13 6—Russell's Hetton 15 9—Stewart's 16—Caradoc 15—Hartlepool 16—Hengh Hall 13 9—Kelloe 15—Thorniey 14 3—Seymour Tees 14—South Durham 13 6—Tees 16 9—West Cornforth 13 6—Cowpen Hartley 14—Garmant Stone 22—Hartley 14—Powell's Duffryn Steam 20 6—Newton Main 12 6—Sidney's Hartley 14.—Ships at market, 155; sold, 99.

WEDNESDAY.—Dean's Primrees 12 6—Hasting's Hartley 14 3—Ord's Redheugh 12 9—South Peareth 12 6—Tamfield Moor 13—Wylam 13 9—Wall's End Bewicke and Co. 14—Framwelligate 13 9—Gosforth 14—Haston 13 9—Wastellife 14—Washington 12 6—Eden Main 14 6—Braddyll's Hetton 15 6—Bell 14 3—Haswell 16 9—Hetton 16 8—Lembton 19 9—Russell's Hetton 15 9—Stewart's 16—Whiwell 15 6—Caradoc 16 8—Hudson's Hartlepool 14 6—Hengh Hall 14—Thornley 14 6—Adelaide 15—Norwood 13 3—Tees 16—West Tees 13 6—Cowpen Hartley 14 6—Derwentwater Hartley 14—Garnant Stone 21 6—Hartley 14—Powell's Duffryn Steam 19 6—Newton Main 12 6—Ships at market, 53; sold, 57; unsold, 26.

FRIDAY.—Bate's West Hartley 14—Davison's West Hartley 15 3—Dan's Primress 16

market, 83; sold, 57; unsold, 26.

FRIDAY.—Bate's West Hartley 14—Davison's West Hartley 15.3—Dean's Primrose 12—Ord's Redheugh 12.9—Ravensworth Pelaw 13.3—Tanfield Moor 13—Eden Main 15—Derwentwater Hartley 14.9—Garmant Stone 21—Howard's West Hartley Netherton 15.3—Powell's Duffryn Steam 19 to 19.6—Wall's East Framweligate 14—Gosforth 14—Brad-dyll's Hetton 16.9—Washington 14—Bell 14.9—Hetton 16.3—Lambton 16—Russell's Hetton 16.8-Shotton 15.6—Cassop 15.3—Heugh Hall 14—Thornley 14—Adelaide 15.6—Seymour Tees 14.6—South Durham 13.9—Tees 16.3.—Ships at market, 50; sold 37.

# LATEST CURRENT PRICES OF METALS.

CAR DATE DATE	12	1.00	1000	A			_	_	_
I SOUTH TELL Y		. 4		E		8.		8.	ě.
Inon -Bar a. Wales - fon	5	15- 6		Corras -Ord. bottoms	0			0	11
London	6	15-7		YELLOW METALSHEATHING	. 0	0-		0	81
Nail roda H	. 0		. 0	Tin-Com. blocks g est.	0	0	3 1	5	10
Hoop(Staf.)		0-9 (	0	bars	0	0-	3 1	6	0
Sheet	- 6	0-10	9 6	Refined	0	0-	3 1	9	
Bars	0	0-8 10		Straits A		0-	3 1	4	0
Welsh cold-blast?			7 5	Bunca	0	0-	4	Ā	0
foundry pig		.0-4	.0	TIM-PLATES -Ch., IC i, box	ĭ	8-	2 1	å.	0
Scotch pigo, Clyde	0	0-24			î.	14-		5	0
Rails, average		0-6				4.6			0
Chairs	0	0-4 6	-	i IX		10 6	1 1	3	0
Russian, CCNDe	0	0-17 6		LEAD-Sheet &	0	0-1		in in	0
PSI	0	0-11							0
	U	0		Pig, refined	0	0-1			
" Gourieff	0			" common		0-1			0
., Archangel	0								0
Swedish d, on the spot	0					0-1			0
" Steel, figt.	. 0	0-15 (		Dry White		0-2			0
, kegse	0	0-13 10	0	Shot (Patent)	0	0-2	0	0	0
Coppen Tilef	0	0-87 10	0	SPELTER-(Cake) on spot	0	0-1	3 16	9	0
Tough cake	0	0-88 10			0	0-	-	-	
	0	091 10	0		0	0-2	1 1	0	0
					0	0-	0 :	3 -	9
	0	0-88 10	0		0	0-	1	0	

a Discount 2 per cent. b Net cash. c Discount 2 per cent. d Ditto and c Discount 3 per cent. b Ditto 2 per cent. l Net cash. In kegs and s-inch. f Discount 1 per cent. g Ditto 2 per cent. h Net cash and count 1 per cent.

The prices of metal remain-nearly the same as quoted in last week's, and with scarcely any business doing.

GLASGOW PIG-IRON TRADE, JUNE 8.—Our market is still in a very depressed state and the price has, consequently, further recorded. Mixed Nos. may be quoted at 43s

## LEAD ORES.

ABOUT MINERY TORS OF LAXET LEAD ORE. Douglas, Isle of Man, June 3.

Tenders.			Price	per	Ton
Walker, Parker, and Co. (purchasers)	*********	******	£18	10	6
Mather and Co	**********		17	12	6
B. Somers				5	6
Newton, Keates, and Co			17	3	0
Tamar Smelting Company	*********		16	0	6
Sims, Willyams, and Co			16	0	0
J. T. Treffry			15	16	0

Tons. Price. Purchasers. .... 100 ..... £9 5 0 .... Walker, Parker, & Co

### COPPER ORES. Sampled May 24, and Sold at Andrew's Hotel, Redruth, June 8, 1848.

Carn

	-						10	-			
	Mines.	Tons.		Pri	ce.	-	Mines.	Tons	 P	rice.	
k	Brea	113	£2	16	0		Wh. Tremayne	15	 £10	1	
	ditto	100	8	6	- 6		Wh. Agar	51	 3	18	-
	ditto	95	5	19	6		ditto	41	 3	18	
	ditto	85	5	17	6		Wh. Jane	41	 2	15	
	ditto	77	4	12	.0		ditto	36	 1	14	-
	ditto	75	6	3	0		ditto	8	 0	10	-

ditto	95		5	19	6		ditto	41		3	18	6	
ditto	85		5	17	6		Wh. Jane	41	****	2	15	0	
ditto	77		4	12	0		ditto	36		1	14	6	
ditto	75	****	6	3	0		ditto	8		0	10	0	
ditto	69		4	11	0	1.0	Wh. Prosper	35		1	3	0	
ditto	65	****	4	19	6	4	· ditto	17		3	2	0	
ditto	58		8	- 1	6		North Wh. Basset.	27		4	4	6	
ditto	55		3	6	0		ditto	25		6	12	6	
ditto	36		0	10	6		Wellington Mines	23		10	0	6	
Par Consols	95.		5	16	6	-	ditto	19	****	5	4	0	
ditto	94		6	7	0		ditto	8	****	1	17	6	
ditto	83		5	18	6		Great Work	42		7	1	6	
ditto	78		5	6	0		Gwinear Consols	12		8	16	0	
Wh. Rodney	49		1	18	6		ditto	6		9	9	6	
ditto	47		2	0	6		Trenance Mines	9	****	19	0	6	
Wh. Tremayne	47		3	4	0		ditto	6		4	17	6	

			TO	TAI	LF	RODUCE.				
Carn Brea	828	£	4450	8	6	Wh. Prosper	52	 € 92	19	-
Par Consols	350	****	2055	9	0	North Wh. Basset	52	 279	14	(
						Wellington Mines				
Wh. Tremayne	93		465	1	0	Great Work	42	 297	3	•
Wh. Agar	92	** **	361	2	0	Gwinear Consols.	18	 126	9	0
Wh Jone			178	17	0	Trenance Mines	15	 200	9	

Average Standard ...... £ 84 4 0 | Average Produce ..... 95 

COMPANIES BY	WHOM I	HEOR	ES W	ERE	PURC	HASEL	).	
	May The	10.00	. 7	ons,		Amo	unt	
Mines Royal			****	267		£1305	8	0
Vivian and Sons				451		2233	12	0
Freeman and Co				3084		1388	5	9
Sims, Willyams, and Co				2314		908	13	3
Williams, Foster, and C							10	6
				-				

Total tons...... 1773 £9041 9 6 NO SALE on Thursday next, June 15.

Copper ores for sale on Thursday week, at Andrew's Hotel, Redruth.—Mines and Par-is.—Devon Great Consols, Wheal Josiah, Wheal Maria, Wheal Fanny, and Wheal Anna aria 1537—West Caradon 337—Fowey Consols 273—Wheal Friendship 250—Marke all 199—West Wheal Jewel 142—Bedford United Mines 104—Holmbush 90—W heal orland 29.—Total quantity of ore for sale, 2926 fons.

## COPPER ORES

At SWANSEA, for sale June 15.—Cobre 113, ditto 106, ditto 100, ditto 99, ditto 90.—Burra Burra 67, ditto 68, ditto 58, ditto 50.—Kapunda 45, ditto 24.—Berehaven 113.—Cuba 71, ditto 40.—Ballymurtagh 34, ditto 50.—Burra Burra 59, ditto 46.—Montacute 40, ditto 36, ditto 17.—Gurtavallig 87.—Total quantity for sale, 1428 tons.

Wheal Bucketts.—T. Hooper, while ascending the shaft, broke a blood-vessel, and have younted a large quantity of blood, died in his comrade's arms, before reaching surface. Par Connels.—W. Curtis got his leg entangled in the kibble chain, which crushed and oke it. Amputation was had recourse to, but erysipelas supervened, and he died.

# MINING NOTABILIA.

[EXTRACTS FUND OUR CORRESPONDENCE.]

CANBORNE CONSOLS MINING COMPANY.—The property in this mine is divided into 1000 shares, of 71 each, wift a paid-up deposit of 51 per share. The directors are Sir. Geo. G. Otway, Bart, Lieut-Col. Harriott, Captain Tyndale, and Nathaniel Ogle, Esq. The managing director in Cornwall, is Mr. F. Daniell. Arrangements are made for most effectually working the mine. Although this company has been so recently formed, the shares are exchanging hands at a heavy premium.

Gwynkar Consols.—I have been to Gwinear to-day: they have got a fine

GWINEAR CONSOLS.—I have been to Gwinear to day; they have got a fincile of ore to surface of the best quality. There is a very great improvement in the 10 fm. level, going east. Altogether, the prospects of the mine continued

WHEAL METHA.—We have been informed that the adventurers in this minuve hit upon the East Wheal Rose lode. We should be glad to receive further formation upon the subject.

WHEAL VINCENT, near Five Lanes, has commenced operations, by John Mayhew, Esq., of Coggeshall, Essex, under the agency of Capt. John Spargo. The sett contains some highly promising lodes for both tin and copper, and it is anticipated that early returns will be made.

BUDNICK CONSOLS.—At a meeting of adventurers, held at the account-house, on Monday last, the following statement of accounts, for March and April was allowed:—To costs, &c., 986. 9s. 7d.; materials, &c., on shares relinquished, 971. 13s. 2d. — 10861. 2s. Cd.—By ores sold (less dues), 7491. 7s. 6d.: balance in favour of the purser, 2861. 15s. 3d.

SOUTH CARADON.—Statement of accounts to the end of Feb.:—By ores sold, 4849L 18a. 7d.; balance from last account, 224l. 11a. 6d. = 5074l. 10s. 1d.—Amount of Jan. and Feb. costs, including merchants' bills, lord's dues, &c., 3679L 10s. 5d.: balance, 144ll. 19a. 8d.—Dividend declared on May 30, 1280l.: now in hand, 164l. 19a. 9d.

Wheal Basser.—The statement of accounts to 6th June last shows—B sale of copper and tin ores, in March and April (less 1-20th dues), 21681 16s. 9t.—Labour cost, 11431. 1s. 3d.; merchants' bills, 7171. 8s. 3d.—showing profit of 3081. 6s. 10d. Balance due to purser from last account, 4961. 1s. 3d.; remaining due, 1871. 14s. 5d.

CWMAVON WORKS.—We regret to state, that the operations at these work are likely to be reduced, in consequence of the stoppage of the collieries at Oakwood and Bryn, which contributed, in a great degree, to supply the works with coul We are informed, that the stoppage is occasioned by the inability of the agents of Mr Talbot (to whom the property belongs), and those of the Bank of England, to come to arrangements. We trust the collieries will not remain unworked for any lengthened period as it will be the means of throwing many hundreds out of work.—Merthyr Guardian.

THAMES TUNKEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending June 3 was 14,754; amount of monay, £61 9s. 3d.

## NOTICES TO CORRESPONDENTS

ecommunication from at pursued at this mine rge profitable returns to I management pursues of the agreement of the agreement of the greened are profited by the second of the second of

# THE MINING JOURNAL Bailway and Commercial Gagette.

## LONDON, JUNE 10, 1848.

The return of the imports and exports of lead, copper, tin, and zine, as annually ordered by the House of Commons, has just been received, from which it appears, that the total quantity of lead ore imported was 507 tons, of which 400 tons were from France, and the remainder principally from New South Wales. Pig and sheet the remainder principally from New South Wales. Pig and sheet lead imported amounted to 3932 tons, of which 216 tons only were retained for home consumption—the rest being re-exported. Of the quantity imported, 3268 tons came from Spain; 385 tons from Gibraltar; 152 tons from Portugal; and the remainder from sundry places. Of British lead there were exported 8259 tons—of which France took 1765 tons; Russia, 1754 tons; East Indies, 1055 tons; Holland, 806 tons; Brazil, 327 tons; Australasia, 266 tons; British West Indies, 260 tons; Hans Towns, 247 tons; Canada, &c., 220 tons; Denmark, 204 tons; Belgium, 195 tons; Cape of Good Hope, 192 tons; Channel Islands, 102 tons; Mauritius, 127 tons; Italy, 116 tons; and the remainder to sundry places. The export of lead shot was 1177 tons; litharge, 328 tons; red lead, 840 tons; and white lead, 1389 tons.

shot was 1177 tons; litharge, 328 tons; red lead, 840 tons; and white lead, 1889 tons.
The total quantity of foreign copper ore imported was 41,490 tons, of which 23,831 tons were from Cuba; 9223 tons from Chili; South Australia, 5511 tons; Peru, 611 tons; New South Wales, 570 tons; West Indies, 595 tons; New Zealand, 284 tons; America, 202 tons; Italy, 207 tons; Van Diemen's Land, 138 tons—the duty on the whole being only 40,864l.; and the quantity of fine copper contained therein, 8920 tons. The quantity of metallic copper imported was—unwrought bricks and pigs, 513 tons; retained for home consumption, 70 tons; old copper, 65 tons; home consumption, 27 tons; bars, rods, and ingots, 336 tons; home consumption, 4 cwts.; plates and coin, 60 tons; home consumption, 1 cwt.; and copper (mannfacturing value), 4351l. 5s., of which 3653l. 5s. were retained for home consumption.

and coin, oo tons; nome consumption, I ewil; and copper (mannfacturing value), 43511. 5s., of which 36531. 5s. were retained for home consumption.

The total quantity of copper exported was 15,142 tons—consisting of bricks and pigs, 5833 tons; coin, 70 tons; sheets, nails, mixed, and yellow metals, 8727 tons; wire, 14 tons; other wrought copper, 497 tons. Of this quantity there was exported from London, 5899 tons; Liverpool, 4967 tons; Swansea, 2679 tons; Llanelly, 560 tons; Bristol, 263 tons; Hull, 251 tons, &c. Of this total amount of 15,142 tons, the East Indies took 3283 tons; France, 3611 tons; America, 2721 tons; Hans Towns, 759 tons; Belgium, 601 tons; Italy, 471 tons; Holland, 448 tons; Canadas, 313 tons; Brazil, 287 tons; foreign West Indies, 274 tons; British ditto, 256 tons; Egypt, 174 tons; Australia, 173 tons; Spain and Canaries, 173 tons; Africa, 130; Portugal 125; Channel Islands, 110 tons.

The total quantity of tin imported was 1165 tons, of which 161 tons were retained for home consumption; there arrived from Singapore, 637 tons; China, 345 tons; East Indies, 126 tons; Java, 36; Holland, 15; Peru, 5 tons, &c. The total exports were 1741 tons British, and 574 foreign, of which Turkey took 426 tons; Russin, 318 tons; France, 295 tons; Italy, 124 tons British, and 238 foreign; Spain and Canaries, 92 tons; Greece, 77 tons; America, 56 tons British, and 185 tons foreign; Syria, 52 tons; Hans Towns, 52 tons; Egypt, 39 tons; Brazil, 38 tons; Austria, 25 tons, &c.

The total quantity of zinc imported (duty free) was 12,769 tons; and exported 886 tons British, and 3026 tons foreign; America, 223 tons British, and 115 tons foreign; France, 140 tons foreign; Italy, 35 tons British; Holland, 28 tons; Cape of Good Hope, 27; Canada, 23; British West Indies, 22; and Australia, 13 tons.

As compared with the previous year's returns (1846-7), there was a falling off in foreign copper ore from, 51,623 to 41,490 tons; and copper exported from 15,718 to 15,142 tons. Foreign tin imported increased from 7862 to 393

The importation list of the week just ended, presents us with a few particulars which are unusual and interesting-the receipt of the precious metals has exceeded the average weekly amount. Gold

the precious metals has exceeded the average weekly amount. Gold and silver has come in by tons—packages, boxes, and casks, having come to hand on merchants', and on Government, account; these have arrived principally from the East Indies and South America, but our chief interest was excited on noticing the importation from Australia; these, besides general merchandise, include 700 hams, about 7000 bushels of wheat, and above 300 tons of lead and copper ore. We have before noticed the vast productive capabilities of these fine colonies. And we learn also, that on every hand, and throughout all their districts, there is a painful and a paralising want of labour. If that great element was furnished to anything like the necessary extent, there is no known height of prosperity which might not be confidently anticipated for those genial and fertile lands.

In England, on the contrary, labour is too abundant, and, as a consequence, too cheap—too cheap, that is, for the labourers themselves, and prices too low to enable either farmers, or manufacturers, or mine proprietors, to pay adequately for the working of their several parts of the great operative machine. Meanwhile, from the shores of the southern hemisphere, voices are singing, 'come over and help us'—they are heard, and but coldly heard, in a country where a vast deal of work is done for a comparatively little money—too much, indeed, for the amount of remuneration, there can be no doubt whatever, taking into account the naval and military duties discharged throughout the world, the mining industry, the manufacturing skill, the agricultural labour, and the thousand miscellaneous sorts of occupation which fill up the daily round of British employment. If may be safely affirmed, that the work daily turned out of hand, is, in its amount, without precedent or parallel in the laneous sorts of occupation which fill up the daily round of British employment. It may be safely affirmed, that the work daily turned out of hand, is, in its amount, without precedent or perallel in the history of any other operative community. From these onerous tasks, the young, the vigorous, and the virtuous, might most advantageously escape, to the easier life and the more remunerative occupations which await them in the south-eastern world. But every individual must altogether judge for himself. To us it does appear,—and the importations of the week, in some sense, strengthen the opinion—that the fuller colonisation of the lands appertaining to the Crown, in the regions of which we speak, would be a triple benefit-first, to the colonies themselves, to those who colonise, and to the mother state herself, whose sovereign right would be enlarged by the growth and prosperity of a secondary empire.

We are well pleased to find, that our readers are directing their attention to the system (not the cost-book, or that of honesty) pursued by companies of the present day, and the letter of "A Subscriber," with reference to the Wheal Curts Mining Courant, calls for a passing remark. Our correspondent, we must first advance

meli that he says-" Ever since it was determined is in error, instanuch that he may.—"Ever since it was determined to recommence working, you have invariably spoken of it in the highest terms." This we disclaim, and call upon our correspondent to cite any remark ever made in the Journal, which shall justify such remark. Our correspondent goes on to say, that "there is aomething very rotten in the state of Denmark," with respect to money. We perfectly agree with him in one sense, as applied to mine jobbers; but not as affects the mines or mine adventurers, and agents, where honesty is the course pursued. The remarks of our correspondent, whose letter dates from Manchester, are, generally speaking, so wide from the mark, that he must excuse us adding more, that while we admit our ignorance of the cotton trade, we canore, that while we admit our ignorance of the cotton trade, we can the but conclude, he is somewhat innocent of that of metal.

It is with pleasure that we refer to the brief report of the pro-edings of the LAMBERGOR WHEAL MARIA MINING COMPANY, which appears in another column. It appears therefrom, that the adventurers have resolved on the adoption of a course which should have been pursued some 12 months since, but which may be explained by the features presented in the pecuniary world. Happily, such have, in a great degree, passed away; and without any renewal of confidence being necessary, in the present instance—the exchequer being in better order—the determination has been arrived at, so that the mine shall be fairly world by presenting rived at, so that the mine shall be fairly worked by prosecuting it in depth and sinking the engine-shaft 20 fms., which has been, for the past 10 or 12 months, abandoned, and also putting down the eastern or Daver's shaft, and extending the levels, so as to take the several lodes at a greater depth. To effect this, a call has been made of 30001.; and we congratulate the adventurers on this bold determination—feeling satisfied that, with economy and active management, they will be well repaid for their adventure, and the confidence manifested in their proceeding.

The completion of the Swansea Docks—now, we believe, in course of as rapid construction as the nature of such works will admit—is looked forward to by our brethren in South Australia with considerable interest and auxiety, as opening a channel for the direct consignment of their ores to the immediate neighbourhood of the smelting depôts, instead of shipping them to London, from whence they have to be transferred in smaller vessels to Swansea. The great distance of South Australia, and the consequent necessity of transmitting cross to England renders it of the utmost invocators. transmitting oree to England, renders it of the utmost importance that they should at once proceed to their destination; and, on the completion of these docks, which will be capable of receiving vessels of the largest tonnage, it is probable that so great an increase will of the largest tonnage, it is probable that so great an increase will take place in the Swansea trade, both import and export, as to secure to Australian vessels a sufficiency of back freight, without compelling the necessity of going either to London or Liverpool for the purpose. The South Wales Railway will open up a complete communication between Swansea and the great coal and iron districts of Wales, and the manufacturing localities of the kingdom—the produce of which for exportation will thus find a convenient outlet, with every accommodation which modern improvements can secure for speedy and safe shipment. This direct consignment to Swansea will effect a great saving in time, often to the extent of a month or more, in the voyage out and home—a circumstance of very considermore, in the voyage out and home—a circumstance of very considerable importance to the parties interested, both here and in our Australasian colonies. In making these few observations, we do not lose sight of the probability that, at a future period, the copper ores of South Australia may be smelted on the spot; but until such is the case, and British capital can be obtained in sufficient abundance to erect works on a large scale, either for an extensive manufacture of charcoal, or the working of coal seams, should such be discovered, in connection with blast-furnaces, it is a question of the greatest importance to the proprietors of mines as to the choice of an English port, from whence the most direct and rapid communication beeen the two countries can be effected.

The development of our coal measures may be considered as of national importance, adding to the wealth acquired from the mineral resources of the country, and, at the same time, affording employments in those districts where it may be said to be most required. Among the many schemes brought forward, or companies formed, during the past few years, that of Cameron's Steam-Coal Comeany took a prominent position; and, judging from the progress it has made and its quiet course, would appear to be advancing to the attainment of the object put forward in the prospectus of the company, and which has been, in a great measure, borne out by the reports at the several meetings of shareholders held since its establishment. Having had an opportunity of acquiring information, on which every re-

the attainment of the object put forward in the prospectus of the company, and which has been, in a great measure, borne out by the reports at the several meetings of shareholders held since its establishment. Having had an opportunity of acquiring information, on which every reflance may be placed, we readily avail ourselves of the same—so that, in submitting the results of our inquiries, we may be enabled not only to render information to the shareholders generally, but, as we hope, induce capitalists to direct their attention to the mineral products of this country, holding out as an example the advantages attendant upon mining or collidry operations, where the one or other is conducted with economy and good judgment, and where the parties to whom is confided the management are themsolves largely interested in the benefits to be derived from the profitable working of the concern.

It would be fattile to enter at any length on the peculiar features of the company—inasmuch that, we believe, the Act of Incorporation, under 7th and 8th Vic., c. 110, and that especially applying to the construction of the railway, under 9th and 10th Vic., c. 401, with the extent of property, some 1300 acres, or thereabouts, which are held under lease for 99 years, are generally known, as also the locality of the collieries and the several measures. At the present moment, we learn that the output of coal is from 500 to 600 tons per week, employing about 200 men, under the management of Mr. Arkinson—the coal being in favour, and employed for several uses; the copper works of Mossra, Schneider and Co., at Loughor, taking some 1800 to 2000 tons a year—while it is in demand by the Atlantic steamers, and used by the South Wales line of railway, the Southampton Dock Company, and other public bodies, to various purposes—thus evidencing its general use and applicability.

The company have six vessels under their command, the aggregate of which may be estimated at 1000 tons, which are chiefly employed between Swensee and London, Southampto

shaft will occupy 18 months in minking. It may be observed, that the engine power and other appliances are equal to putting out 250 tons a-day.

One of the most important points connected with the railway, we may observe, is that of the interposition of the Loughor Bridge, over which it becomes necessary to carry the line of rails. This, however, has, it appears, been surmounted; the magistracy of Carmarthen and Glamorgan having expressed their disposition to afford the necessary powers, upon being secured by the company from any cost or expense attendant thereon, which, we believe, has been readily conceded by the company. We shall at all times feel favoured by correspondents rendering us information with reference to any operations connected with mining or colliery matters, whereby we may, through our columns, give publicity thereto, and, at the same time, furnish intelligence of advancement made in our mineral districts.

In directing attention lately to the objects of the EASTERN ARCHI-THE LAGO COMPANY, we have dwelt principally upon the commercial advantages to be gained from the establishment of British settlements in Labuan and at Sarawak. This view of the subject is also ably treated in a pamphlet\* which we reviewed on the 20th May in this Journal. We would take this opportunity of again recommending it to the perusal of our readers, as showing the great national advantages to be derived from a proper development of the tional advantages to be derived from a proper development of the resources of the rich islands in the Indian Archipelago. The writer also dwells particularly on the discovery of coal on the main land of Borneo, and in Labuan, and mentions the fact, "that in so many of Borneo, and in Labuan, and mentions the fact, "that in so many cases the commerce and prosperity of a country have been founded on its mineral riches." He enumerates Great Britain, Spain, India, Australia, and New Zealand, and very appropriately adds Borneo and Labuan; for although the latter are rich in other products, it appears by the prospectus of the above company, that "the working of the coal-mines will form an important feature in the operations of the company." We have already pointed out the numerous and important advantages which this discovery will afford, not only to the company itself, but also to the Peninsular and Oriental Steam Navigation Company, to her Majesty's Government, and to the East India Company, &c. But we would now direct attention to East India Company, &c. But we would now direct attention to the fact, that the islands in the Eastern Archipelago are "a region abounding in mineral wealth." We have the authority of Sir James BROOKE for stating, that "it is not too much to say that, within the same given space, there are not to be found the same *mineral* and vegetable riches in any land in the world;" and he also states that "gold of a good quality certainly is to be found in large quantities."

Antimony ore he describes as a staple commodity, which is to be procured in any quantity, and tin is said to be plentiful. Copper has been reported; but the iron ore which has yet been found is of inferior quality. Indeed, so strong are the indications of the mineral wealth of the country, as to justify us in recommending a minute survey by a man of science. We are sure that there are many qualified men in the mining world who could do much for themselves and for others by visiting that country. We are convinced that their time and trouble would be amply repaid.

In our columns of last week, we offered some brief observations on the rider, or clause, introduced by Mr. Wyld, on the third reading of the amended, or supplemental, bill affecting joint-stock companies, which, we did not hesitate to say, was destructive to the mining interests, as rendering the Cost-book System nugatory, by embracing companies formed for working mines and minerals, as being under the provisions, and liable to the terms, of the proposed Act. At the time of making those observations, we were rather Act. At the time of making those observations, we were rather governed in the expression of our opinions, from the terms of the letter of our correspondent, not having the bill before us—but which having since acquired, we purpose briefly reviewing; and, so far as is necessary, correcting any error into which we may inadvertently have fallen, although we believe, in the main, we shall be found to be right in the construction put on the clause in questently have fallen, although we believe, in the main, we shall be found to be right in the construction put on the clause in question. We are well aware that the question affords much opportunity for special pleading; and, like many clauses introduced into Acts of Parliament, may be read in two different ways. We will, however, endeavour to divest the subject of its intricacies so far as lies in our power, and leave to our readers to determine how far we are right in the conclusions at which we have arrived. The complaint made by our correspondent, and which we adopted, was, that a gentleman representing a mining district, and being naturally associated therewith and with the mining interest, should have introduced a clause on the third reading of the bill, which, in effect, was to subject mines to the tender mercies of the legal profession, who should contend as to the purport and meaning of each of the 126 clauses of which this amended bill, exclusive of the riders, is composed; and although we have been assured by the hon. gentleman in person, and have also received a communication from Sir C. Lexon to the same effect—viz.: that the bill applies only to the winding-up of companies, whether formed for railway, mining, or any other purposes, and is not to be construed as interfering with any known principle, or system, which may be at present pursued, we cannot, although with due deference to those gentlemen, but express our doubts as to the effect which the passing of the measure would have on the Cost-book Principle, without some explanation being given in a definite form.

We will at once refer to the Act 7th and 8th Vic., c. 110, for the "Registration, Incorporation, and Regulation of Joint-Stock Companies," wherein, by clause 63, all mines worked on the Cost-book Principle, are exempted from the powers, or obligations, contained in the Act—the clause being in the following words: "Provided always, and be it enacted, that nothing in this Act contained, shall extend, or be construed to extend, to any partne

nothing in this Act contained, shall extend, or be construed to extend, to any partnership formed for the working of mines, minerals, and quarries, of whatever nature soever, on the principle commonly called the Costbook Principle." Here we have a clear exemption; and the Cornish Members considered it their duty to protect the mining interests of the county, and in deference to whom the clause was inserted—thus clearly showing that the Act was inoperative in all cases where the Costbook Principle was adopted. Now, then, let us refer to the present bill, which, in the preamble, recites, that its object is to "Amend the Acts for facilitating the winding-up of the affairs of Joint-Stock Companies unable to meet their pecuniary engagements, and also to facilitate the bill, which, in the preamble, recites, that its object is to Amend and Acts for facilitating the winding-up of the affairs of Joint-Stock Companies unable to meet their pecuniary engagements, and also to facilitate the dissolution and winding-up of Joint-Stock Companies," referring more especially to an Act, 7th and 8th Vic., c. 3, and 8th and 9th Vic., c. 99. —the object of which several Acts were for "facilitating the winding-up of the affairs of Joint-Stock Companies," but which were found to be ineffective—and hence the introduction of the present measure. The Act for the Registration and Regulation of Joint-Stock Companies (7th And 8th Vic., c. 140), we grant, is not immediately noticed in the preamble; but, as it is to be assumed no joint-stock company could exist without being subject to the provision of that Act—the several Acts having reference to Joint-Stock Companies, including the one more immediately under notice—such must be considered as forming a part and parcel of the whole; and hence the latest measure, or amended bill, must be taken as the authority—in-asmuch that it may be found to interfere with, or abrogate any, provisions, or clauses, in those passed antecedent thereto. The rider introduced the latest measure, or amended bill, must be taken as the authority—masmuch that it may be found to interfere with, or abrogate any, provisions, or clauses, in those passed antecedent thereto. The rider introduced by Mr. WYLD is couched in the following terms:—"And be it enacted, that all associations, or companies, formed for working mines, or minerals, shall be liable to the operations of this Act." Now, it would appear clear to us, that this applies to the whole of the clauses in the Act sought for; and which, having for its object the amending of the several Acts which preceded it, as connected therewith, must necessarily include that of 7th and 8th Vic., c. 110, in which the clause is introduced, exempting companies, formed for working mines on the Cost-book Principle, from its provisions. It is then evident that the rider, proposed by Mr. WYLD, either renders that clause nugatory, or otherwise we have two provisions, which run counter to each other. In the one Act, mines are exempted; in that proposed, they are included, and subjected to all the provisions affecting Joint-Stock Companies. It may be said—and such, we believe, is the ground assumed by Sir C. Lakon, Mr. E. Turker, Mr. WYLD, and others—that this amended Act is simply to facilitate the winding-up of companies who are unable to meet their pecuniary engagements. Granted such to be the case, what is the object of the Stanusries Courts—what the powers vested in, or the feature of, the office of the Vice-warden? How will the castom of the county, and the legislative Act, work together? These are simple questions; and we think may be solved very simply by

the construction we put upon the several measures being opposed, and in

the construction we put upon the several measures leing opposed, and in contradiction to each other.

We had written thus far ere we were favoured with the very basiness-like letter of Mr. Wyle, which will be found in our columns; and without retracting any expression made in the preceding remarks, we will venture to reply to the letter in question, feeling well assured that, if either the hom. Member, or ourselves, are in error, that one and the other will readily acquit the party in the wrong, from any idea of doing ought than upholding the mining interest legitimately, with or without the aid of the Legislature, although we may have taken different views of the subject. It is only right, in justice to ourselves, as well as to our honourable correspondent, we should in the onset admit, that at the time of writing the article, which appeared in our last Number, we had not seen a copy of the bill; and we must needs advance the real cause, so as to justify ourselves in having offered an opinion on a subject with which we might have become better acquainted, had we, as observed by Mr. Wylan, obtained a copy of the bill. That gentleman has kindly put forward an apology, by assuming that our correspondent's letter arrived at so late a period, that we had not time to consult the bill. We thank him kindly for the suggestion; but the fact was, on sending to the Queen's printing office for a copy of the bill, the error was committed, of designating it the Act. The result may be well conceived, the answer being, "the Act." had not passed; and hence the absence of the copy of the "bill," but of which we have, by the courtesy of Mr. Wyld, become possessed. Thus far, by way of explanation, and endeavouring to clear our way as we go. We now approach the "facts," as presented by our correspondent (the hon. Member). He says, the 7th and 8th Vic., c. 110, is intituled "An Act for the Registration, Incorporation, and Regulation of Joint-Stock Companies;" and clause 64 (an error of ours, adopted by the hon Member, for we find it canson in July, 1847, to amend such Act. The dissolution of Parliament, however, prevented its completion; and in the present session "a more complete and detailed measure," with such object, was introduced by that gentleman, into which bill the clause complained of was introduced; and we here again repeat the clause, and have to direct the especial attention of all adventurers in mines, not only to the construction to be put upon the clause itself, but to the meaning to be attached to one particular word, which is placed in Roman capitals, or distinguished as marked by our correspondent. The words are these—that "all associations, or companies words, when it is a present that the light to the creations of the contraction of

our correspondent. The words are these—that "all associations, or companies, FORMED for working mines, or minerals, shall be liable to the operations of this Act."

We again ask—what is to be understood from the introduction of this clause, and its thus forming one of the component parts of the bill? It is something or nothing—if the former, it is destructive of the 63d clause in the Joint Stock Companies' Act; if the latter, then it is mere verbiage, or a new which the lawyers may take advantage to hang special pleas.

the Joint Stock Companies' Act; if the latter, then it is mere verbiage, or a peg on which the lawyers may take advantage to hang special pleas. We will, however, proceed with our correspondent's remarks. We are told, that the clause was not smuggled into the bill, as our remarks would imply, but that notice of the motion was printed, at least, a fortnight antecedent to the reading of the bill; and we have, moreover, the verbal assurance of Mr. Wyld, that his intentions were well known to the Cornish Members, who raised no objection, but, on the contrary, considered the clause as calculated to be of benefit to the mining interests rather than otherwise. We are sorry that we should differ with the gentlemen referred to—but having our own notions on the subject, and being fully sensible of the errors into which the "collective wisdom" occasionally fall, we must still adhere to the opinion we have expressed, without even admitting the application of the lines of Hudibras. We are bound, upon the representation made by Mr. Wyld, to admit that the regular legislative notice was given; and we take blame to ourselves that we did not caresible of the errors into which the "collective wisdom" occasionally fall, we must still adhere to the opinion we have expressed, without even admitting the application of the lines of Hudibras. We are bound, upon the representation made by Mr. Wyll, to admit that the regular legislative-notice was given; and we take blame to ourselves that we did not carefully peruse the notice of motions which appeared in the papers of the day. We now arrive at a point which, we think, requires some little explanation. Mr. Wyll bell we will have been conversations with Mr. Millsen Grissor, who has charge of the bill, upon this subject; and, in the first instance, he thought, that all mining companies would come under the operation of his bill, and stated to me that such was his intention; but, subsequently, Mr. Millsen Grissor and the law officers of the Crown thought it well that this clause should be inserted." We have here then an avowal, on the part of Mr. Wylld, that the honourable Member who introduced the bill was not competent fo form a judgment, as to the effect likely to be produced by it so far as its extent, although, as a legislator, he was proposing a measure, having reference to one or more acts passed, with which it is presumed that Members of the Legislature are cognizant; inament, that we are all bound to know the provisions of an Act of Parilament whether capable of reading, or otherwise; of which our correspondent states, the honourable Member was in a blasful state of ignorance, and which was acknowledged by the "law officers of the Crown."

Mr. Wylld, however, kindly steps forward to afford assistance to his friend, Mr. Millsen Grissos, and says—"As you do not include mining companies in your amended Act, allow me to introduce a clause which shall make them a part and parcel of this joint-stock winding-up measure." Thus Mr. Wylld have been exceeded the provision of the Act, from which, had he been quiet, according to mount and millsen which and with in the mine adventurers, who have quiet enough to conten

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the term, which is most destructive to the mining interests.

We have not space to dwell on the subject at the moment, which requires the considerate attention of all engaged in mining adventures; and having our own views on the subject, which we believe to be perfectly in unison with those of Mr. WYLD, we reserve, until next week, any observations on this important question, as also on a matter to which we consider that gentleman attaches some importance, and which has not been lost sight of by us—that of the word formed, which is found in the 63d clause of the Act referred to.

We must needs defer, until next week, entering upon the subject of the adoption of the Cost-book System in localities where the principles are perfectly unknown, and in no way recognised; and where, moreover, as is very properly observed, the Stammaries Court has no power or control. This will form subject for another article, when we will endeavour to meet the other points mooted—having, for the moment, seized upon these whigh appeared most prominent as effecting the bill in question.

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## LIABILITY OF PARTNERSHIP. +

A case of very considerable importance to proprietors in joint-stock companies was decided, on Friday last, in a northern district court. It was that of a Mr. Thomas Metcalf, a shareholder in the North of England Joint-Stock Banking Company, which stopped payment in March, 1847. It is not necessary to go into all the technicalities of the law relating to these matters, but it behoves the public to understand that Mr. Metcalf, who was sued by a depositor to the amount of 1607l. in the bank in question, was singled out as the victim of the parly suing, and that, after much judicial dubitation, a flat was allowed to issue against him. Mr. Metcalf had carried on the business of a grocer at North Shields, and was in all probability prevailed upon, on the establishment of the said bank, to become a proprietor, under the assurance that it would not only be a profitable, but a most secure, speculation. It is true that he had made an assignment of his effects for the benefit of his creditors—but, as we understand the case, the party going for the flat might have had an equally eligible ground of proceeding against any other shareholder in the company. The learned commissioner who adjudicated in the matter, felt that a consideration of the authorities consulted considerably strengthened his own first impression, that it was not the intention of the Legislature to give more than one remedy to the ereditors of a joint-stock bank; and that, therefore, but for the ex-parte case of Wood, he should have had great difficulty in coming to the decision, that a flat could be taken out by a creditor of a joint-stock bank against an individual member for the debt of the company:—

"It had been contended in the present case, that the right to take out a flat followed from liability as a partner, and that the stature right of a creditor to issue a flat gollator of the debt of a banking copartnership; and that, although there were differences between such a partnership and an ordinary partnership, a joint-stock bank must still be a fir lerable importance to proprietors is panies was decided, on Friday last, in a northern district court. It was that of

the debt. That was proved to have been the case in the present instance, and, therefore, he felt bound to proceed of adjudication under this fait. Thomas Metcalf was adjudged bankrupt accordingly.

The case of Mr. Metcalf appears to be somewhat different from that of the shareholders generally of joint-stock companies. Meetings of the customers, or creditors, of the North of England Bank were called by the directors, in order to obtain their assent, that the sum which stood at the credit of their several accounts should remain as loans in the hands of the directors for the purpose of enabling them to wind up the affairs of the concern. The petitioner for the flat agreed, amongst other persons, to such an arrangement, and accepted the promissory note of two of the directors for 16002, payable to himself, or order, at two years after date, and signed by the makers on behalf of the banking company. The transaction was, upon the authority of the important case of Anderson v. the Bank of England, declared by the court to constitute a borrowing, or taking up of money, on behalf of the bank. It might, his homour said, at first sight, appear capable of argument, that the petitioning creditor had accepted the security of two of the directors instead of that of the whole of the members, who were bound to him before taking the note, but that there was no reason to presume that such a contract had been entered into; and that, if the note which he received had been affected by any such invalidity as would avoid the liability of the company upon it, the case would at most be thistify of the debt for money lent to the company before the suspension would not be affected by it. Upon this point, therefore, he declared his judgment to be, that the petitionner was, at the time of the fiat, a creditor of the banking company for the sum specified in the note.

## EMIGRATION TO SOUTH AUSTRALIA.

the petitioner was, at the time of the fiat, a creditor of the banking company for the sum specified in the note.

EMIGRATION TO SOUTH AUSTRALIA.

The want of labour, and the superabundance of the most nourishing food in South Australia, as compared with the absolute starvation and excessive population existing in numerous districts, both in England, and more particularly Ireland, is a subject on which ourselves, and the whole pressof the empire, have constantly enlarged. It is a subject of such vital importance, at the present moment, when a termigant spirit is abroad, anxious for some change from which the discontented and unemployed hope to better their position, that it cannot be too closely pressed home on the attention of Government. The possession by Britain, at such a time as the present, of a territory at our antipodes as large as Zurope, producing everything necessary for the necessities, the complete, and the luxuries of civilized life, where millions might be located, on the present of the complete of the complete, and the luxuries of civilized life, where millions might be located, on the complete of the

but it is the other way. In like manner, the scales of labour and employment are uneven here; they are as uneven at the antipodes, but in the opposite direction: here labour is too plentiful, there it is as much too ecarce. We have tried and failed to bring the food to the starving man—therefore, convey the starving man to his food, the labourer to his hire, and you may restore the lost balance. In Ireland, a scanty meal, at 2d, or 2½d, per day, was doled out to sustain life; in New South Wales, the unskilled labourer, full fed with ample rations, supplied with a dwelling and garden, found in toa, sugar, milk, and tobacco, disdains to work under 2s. 6d. a-day besides. If destitution causes crime here, affluence leads to the same result there. Want here and abundance there, scarcity and superfluity of labour—opposite extremes—end alike in vice, indolence, insubordination, and social disorder."

Such is the spirit of Mr. Waghorn's plan and remarks, in which we most cordially concur; and, by such a system, carried out with spirit and liberality, and certain regulations for repayment, it is highly probable that, in from 10 to 20 years, the whole amount would be rafunded.

Diss AND HAUGHLEY BAILWAY.—The works continue rapidly to progress etween Haughley and Bacton, and there is no doubt but that part of the line rill be opened for goods and traffic in a few days. An engine is already at the tation. At Thrandistone bog the works are also in active operation, and the rosst part of the bog is overcome. At Diss the arches are being eracted over he River Waveney; and, it is expected, will soon be completed.—Bury and Vorvich Post.

IMPROVED COMPRESSED-AIR LOCOMOTIVE.

IMPROVED COMPRESSED-AIR LOCOMOTIVE.

The Baron Von Rathen, whom the readers of this Journal will remember is a veteran supporter of the doctrine of the utility of compressed air as a source of power, recently obtained a patent under the title of "Improvements in Obtaining and Applying Motive-Power," for further improvements on his plan. In order to demonstrate the truth of this invention, an engine, adapted as a common road locomotive carriage, is building at the College of Civil Engineers, Putney, which, we are informed by a friend who has visited that institution, appears to give a favourable idea of these improvements, and will shortly be ready to perform an experimental trip, from which favourable results may be anticipated, if it be possible to form a judgment from the experiments hitherto made, which have been eminently satisfactory. In the meantime, at the request of the inventor, we give the following communication, substantially as received from him, particularising the peculiar character of his invention:—These improvements refer to the compression of air, and to the expansion and regulation of it, when used as a propelling power. The inventions combined in the specification consist in a new description of hydraulic pump, the water in which is used as a medium for compressing and cooling air, with a cooling or condensing apparatus to condense compressed air, as also steam. The capacities of these pumps are varied in a geometrical ratio, and are fixed to axles, connected together in such manner, that each piston is continually in a different elevation of the stroke—the whole forming collectively an arithmetical scale of the stroke, divided into as many parts as there are pumps and cranks applied—as 3, 6, 9, &c. By these means the injurious inequality of power, in compressing air from 1 to 50, or even 100 atmospheres, and the immense loss of power—that produced by the development of heat in compressing air—is provided against by extensive refrigeration, when expanding air from a high degree of compressi 5 atmospheres; and it is believed that this obstacle, more than any other, has contributed to create an almost general prejudice in the minds of the public, that this safe and beautiful power (compressed air) cannot be usefully employed as a propelling power. The method by which the inventor proposes to restore the heat, is by bringing the compressed air, in the act of its gradual expansion in small films, in contact with the atmospheric air, by the operation of a self-regulator, which allows it to enter in small films between two copper pipes, upon the internal and external area of which the atmospheric air is in free contact. The degree of working pressure is, by an ingenious contrivance, regulated so as to be uniform, but is susceptible of being increased, or diminished, if required. Upon serious examination of this invention, as set forth in the specification of the patent, it will be found too extensive to be fully detailed in the columns of the Mining Journal; but sufficient has been given to show that precautions have been taken for the avoidance of the loss of power in compressing and expanding air, which has hitherto excluded compressed air precautions have been taken for the avoidance of the loss of power in compressing and expanding air, which has hitherto excluded compressed air from being usefully applied as a propelling power—a power otherwise offering such great advantages, as regards safety and comfort. The question, whether atmospheric power will be cheaper than that now in use, the inventor states, can only be practically resolved, by adopting it on a large scale, in regular traffic, upon a railway—for it must be allowed, that locomotion by compressed air is like the power-loom, which is more economical than the hand-loom, only when worked together in large numbers. Thus, steam is cheaper, if it be required to work one locomotive only; whilst compressed air (according to Baron Von Rathen) will save 50 per cent., when applied to a line working 10 or 20 locomotives.

## PROGRESS OF THE ATMOSPHERIC RAILWAY SYSTEM.

Notwithstanding the utter failure of this principle of transit on the Croydon line, and the difficulties and delays continually encountered on the South Devon Railway, from the total inefficacy of the longitudinal valve, as formed on Clegg and Samuda's system, several of the plans which we have often before noticed are being improved and matured, and others, of which we have before scarcely heard, are being brought before the public, evidencing that there is still a conviction in the minds of many scientific and inventive men, that the time will arrive when the costly and prodegous locomotive must give way to this economical, safe, nunctual. of which we have before scarcely heard, are being brought before the public, evidencing that there is still a conviction in the minds of many scientific and inventive men, that the time will arrive when the costly and ponderous locomotive must give way to this economical, safe, punctual, and, in every way, far superior principle. We are led to these remarks from having, during the past week, inspected a working model of an atmospheric line, patented by Messrs. Hartrow and Young, of Bermondsey, which possesses a freedom of action in the valve, and a security from its leakage, far superior to that at present in use. The model in question consists of a 4-in. tube, 150 feet long, with a gradient at each end of 1 in 100, and a turn-table at each extremity, giving the means of starting from each end alternately on the vacuum being obtained, and thus doing away with the necessity and trouble of pushing the carriage every time to the starting point of the tube. The tube is cast with a longitudinal opening, similar to Clegg's; but, instead of a flap valve, the action is precisely similar to the slide valve of a steam-engine. The sides of the opening are so cast, that one side presents a horizontal groove, and the other a tabular face, both planed perfectly true; on this tabular face the slide valve rests, when forced out of the groove by the passage of the coulter, consisting of bars of iron, in a full size working tube, proposed to be ~ or 5 ft. in length; at each end of these bars a semicircular opening is surned through about half their thickness, forming, when two abut against each other, a circular slot, in which is placed a disc of iron, ground perfectly true with the under surface of the bars, and thus presenting a sort of rule joint without any fixed axis, and forming collectively a loose chain which slides over the opening, and renders it perfectly air-tight. To each of these bars, or links, is placed a steel spring, in the shape of a carriage spring—consisting, however, of only one plate, and merely of suffici

FATTERSALL'S PATENT RAILWAY SIGNAL-GUARD AND DRIVER. Numerous have been the means suggested for enabling the guard of a

railway train to make an instantaneous and effective signal, to call the attention of the engineer, amidst the rattling din of the engine, in case of an accident—such as the breaking of an axle, a carriage running off the rails, or other casualty, rendering it necessary to stop. To the great majority of these there have been insurmountable objections, while the one under notice, from its simplicity, inexpensiveness, and efficiency, is deserving the consideration of every railway company in the kingdom. There have been several proposals for a line along the roofs of the carriages, but with no really efficient means of providing for the variations in the length of train, and the sudden stretching out and reclosing of the carriages from the spring of the buffers; in this case this is ingeniously provided for. The apparatus consists of a box about the size of a carriage lamp, in which is a barrel spring, with the cord wound round it; to whatever length the cord is drawn out, the spring, which is wound up by drawing out the cord, takes it back by its own power—the object being to take up the slack, and keep the line sight. It is carried along the several carriages of a train through open rings, fixed to the roofs; and the other end is attached to a lever, which opens a communication between the boiler and steam—whistley or a powerful alarum is fixed on the engine, acted on by a lever in the usual manner. The open rings allow of the chords being detached from, or attached to, any one or more carriages, without withdrawing the cord from end too end. A few sockets and rings, with a winding apparatus, will fit up a train; so that the cost to railway companies is very trifling indeed. This signal is in daily use on the Eastern Union Railway, and has given great satisfaction to the engineers and public. an accident—such as the breaking of an axle, a carriage running off the

BURNING OF THE NEWPORT RAILWAY BRIDGE.

In our last Number, we inserted an account of the total destruction of the timber bridge for the South Wales Railway at Newport, as taken from the Sun, in which it was stated, that the timber being highly Kyanised, or pickled, had rendered it so inflammable, that it caught like gunpowder. Now, the fact is, that timber, prepared with Kyan's process—corrosive sublimate, Sir Wm. Burnett's chloride of sine, Margery's sulphate of copper, or Payne's muriate of lime and sulphares of iron—is much less capable of igniting than wood in its natural state; and one of them (Payne's) renders wood, cordage, hemp, sail cloth, and woollen, cotton, or linen fabrics of every description, absolutely incombustible. The process by which the timber for the Newport Bridge was prepared is Bethell's, which, is a preparation of croosote, or wood tar. The company under whom Payne's process is being worked, have, through the experiments of that guntleman, secured by patent, in addition to the original process, several very important improvements, by which the commonest woods are rendered exceedingly hard and durable, and of the most beautiful texture and earl for ornamental use, taking a beautiful poisb. Under those processes where a single soluble salt is employed, no great advantage is said to arise; but in Mr. Payne's process two soluble salts are injected into the pores of the wood, the air having been previously extracted—muriate of lime and sulphate of iron—when a double decomposition and recombination takes place, producing muriate of iron and sulphate of lime, the latter insoluble. In addition to this, a saturated solution of alum is injected, and decomposed by lime, which renders the wood totally incombustible. We have seen a piece of deal so prepared, held five or six minutes against a horizontal jet of ignited gas, and, when taken away, not even a spark was visible. Under the patents, the company have secured the employment, by double decomposition, of the various, salts produced by the several metals, al-kalies, and sulphur. Ti

of the patents. We shall report the results of the experiments.

EXPORTATIONS OF THE PRECIOUS METALS IN MAX.—If anything were wanting more fercibly to prove the healthy state of the money market, and the facility which now exists in the City, in obtaining cash, it is the extensive exportations of the precious metals to the continent during the past month, which have exceeded those of any former one; but while there is this vast traffic carried on by our bullionists and bankers in this rich produce of mining industry, the importations of bullion and specie from the United States of America, Mexico, Brazil, the West Indies, India, and other distant parts of the globe—tar surpassing those of late years—only prove that the commerce of Great Britain is gradually on the increase, and the confidence in the stability of this country, notwithstanding the recent political events which now affect nearly every otherpart of Europe. The following is from the official returns; but large sums have been exported, which do not exactly come under the cognisance of the Custom-House. It will be seen, that silver is the metal chiefly required for the continent, as the greater portion of the gold is obtained from the mines of Russia and Austria at a lower price than in England. To Rotterdam—silver coin, 160,550 ozs.; ditto silver bars, 451,700 ozs.; ditto gold coin, 13,880 ozs.; ditto gold coin, 6366 ozs.; ditto bars, 5400 ozs.; ditto silver bars, 193,725 ozs.; ditto gold coin, 4201 ozs.; ditto to Harlingen, 830. To Havre—silver coin, 5360 ozs.; ditto bars, 5400 ozs.; ditto gold coin, 2565 ozs.; and 230 ozs. of gold dust (a new article of exportation). Boulognessilver coin, 140,000 ozs.; ditto bars, 140,000 ozs.; ditto gold coin, 556 ozs.; and platina, 4366 ozs. (a novel importation). Mauritina, 4366 ozs. Calais—silver coin, 150,000,000, which enables the directors to afford every assistance to those requiring cash at a moderate interest.

MINING IN BELGIUM.—The accounts from Liege, and other mining districts, continue to be very uns

quiring cash at a moderate interest.

MINING IN BELGIUM.—The accounts from Liege, and other mining districts, continue to be very unsatisfactory. In the coal mines of Mons, &c., not one-half of the regular hands are at work, whilst the greater portion of the furnaces are at a very low blast, merely sufficient to meet the actual demands. Notwithstanding the present crisis in mining operations—which is to be accounted for by the depression in railway undertakings, and the scarcity of money, as well as confidence—there have been recently some large importations of steel and cast-iron from England, for special purposes, admitted under the regulations of the decree passed in the Chambers, in April last, admitting British machinery and atensils, tools or implements, if for the improvement of any establishment, free of duty. The iron of Belgium, although far superior to that of France, is very inferior to British in the manufacture of machinery—the same may also be said of the steel, as they have not got it to the same temper, and, consequently, when an improvement in the present state of monetary affairs does take place, no doubt the English ironnasters and machinists will feel the beneficial effects of the new tariff.

France.—Although, as we stated last week, the decrease in the returns for

tary affairs does take place, no doubt the English ironnasters and machinists will feel the beneficial effects of the new tariff.

France.—Although, as we stated last week, the decrease in the returns for April of coal and iron was large, at was less than first expected; in May, however, there was a very great improvement in both, and during the present month it is expected to be much better. Some large contracts have been concluded, and the international commerce between the two countries, it is hoped, will soon be restored to its former state. The accounts from St. Dizier, and the iron and forge districts, as well as the colliery basins, are far from encouraging to mining operations; there have, however, been a few small contracts concluded at St. Dizier for wrought-iron, but at a lower price than the last quotations. English iron is in demand. The proposed alteration in the tariff is looked forward to with the greatest interest by the monopolist ironmasters and the colliery companies of the Loire, &c.

Mining in Mexico.—The Mexican Government has not yet ratified the treaty with the Americans, and some doubt exists whether negociations will not be resumed, as a great opposition prevails on the part of the former to the annexation of the fine mining districts from Mexico to the United States, whose occupation of that portion of the Republic is looked upon with great distruct; as, if once they have possession of that territory, they may find out an excuss to make further invasion, and altimately strive to get the whole of Mexico in the meantime, several American companies, for working the mines of New Mexico, have been, or are, forming; and the country is being explored, by various engineers, as to its mineral resources, but, at the same time, in a military point of view, to see how far the United States can carry out the projects she has for joining the Atlantic and the Pacific. The next arrivals from that quarter are looked forward to with some interest by the mining companies in this country.

India Mineral

this country.

Indian Minerals—Lieut. Christopher, who has lately conducted steamers many hundred miles up the three great rivers of the Punjaub—the Sutlej, Chennub, and Indus—has just returned to Bombay on leave, his latest expedition being that on the Indus to near Attock. He brings with him a large collection of notes of measurements, sections of the country, and drawings and specimens illustrative of his researchers. Amongst the last of these are—i. Portions of coal, chiefly camel coal, lignite, and jet (exactly like that of Whitby), and a heavy substance his the black-band iron ore of Lauarkshire.—2. Selinite, similar to that found in all our sait deserts, in this plates divisible like mica.—3. Salt, in large cubes 2 or 3 in. each way, as transparent as crystal; salt in masses, corroded by the water, in stalactitic columns, and carved into elegant dishes.

Coal From the Indus. corroled by the water, in stalactitic columns, and carved into elegant dishes COAL FROM THE INDUS.—We have been favoured by a correspondent, to whom in such matters we are under the deepest obligatious, with some specimens of coal from the Upper Indus, near Kalabagh. It differs very materially from most of what we have seen from seams in India. It retains its woody structure, but bears a very close resemblance to some of the less perfect specimens of jet from near Whitby, in Yorkshire. It is hard, heavy, and lustrous oreaks with an imperfect conchoidal fracture, seems to have considerable toughests, and might, we should imagine, be easily cut into ornameuts and polished its remotences from any place of consumption, and the extreme cheapness of Its remoteness from any place of consumption, and the extreme cheapness of fire-wood on the Indua, will, we should imagine, make it of little value as fuel, however abundant it may be on the banks of the river. It burns freely, and gives out a very large quantity of beat. Along with it specimens of iron pyrites, in which it abounds, have reached us. This mineral is common amongst most kind of coals, and greatly deteriorates their quality—it is of no sort of value by itself. It is often mistaken for a copper ore, to which externally it bears a strong renemblance.—Bombay Times.

ar, for certain improvements in far-

NEW PATENTS.

H. Adcock, Moorgaite-street, Loaden, civil engineer, for certain improvements in for nances and fire-places.

B. Barnes, of Wigns, Lancaster, gas engineer, for certain improvements for maniacturing gas for illumination, part of which improvements is applicable to return its distilling pyroligneous acid, and other similar purposes.

J. P. Westherd, Manchester, manufacturing fur into fabrics. (Being a communication B. Lathrup, Eag., King-street, Cheapaide, for an improve wheel for railway purpose (Being parity a communication).

A. P. M. Darlin, gant., Paris, France, for improvements in obtaining motive power.

T. Dalton, Coventry, silk dyer, for improvements in the manufacture of friages, gimp and buillions.

DESIGNS FOR ARTICLES OF UTILITY LEGISTERED.

nd bullions.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

Rock and Son, Mastings, Carriage head.

W. Southam, Nineaton, Warwickshire, pneumatic flour desser.

J. Eston, Woodford, near Thropston, Northamptombire, tipping cast.

W. Boasor, Kindton, Spittinghammires, ed drain pipe.

E. F. Wollbeim, Paris, comb-look i cleaner.— Mechanics' Magazine.

IMPROVEMENTS IN SMELTING.

I am, indeed, surprised at the astonishing indiscre on exhibited by Mr. Bankart, in the columns of your valuable Journal. His letter is emphatically a tissue of errors, which a very ordinary amount of thought, and of experimenting, would have prevented him committing to paper. It seems, although he has talked of experience, that it is necessary for me, albeit one of 18 years' experience in the science of chemistry, in the laboratory and the manufactory, to prove to him how grossly he has blundered, and of which the veriest tyro in the science would be ashamed. Mr. Bankart has said, that my patent "is a direct, though complicated, infringement" of his patent. Never was such a charge made on slighter grounds, as will be evident to your readers, by quoting Mr. Bankart's claim in his specification, which is, "the mixing of the different ores of copper and iron pyrites in due proportion, according to the quantity of sulphur, relatively with copper, which they respectively contain, and adjusting them in such manner as that those ores which hold sulphur in excess may compensate others which are wholly, or partially, deficient in sulphur, and in subjecting such mixture to a succession of roastings and lixiviations (the residuum, after each roasting, having the proportion of copper to sulphur adjusted as before), and thereby obtaining a solution of sulphate of copper, whence the copper is obtained by precipitation in a refined metallic state"—while the principle of my invention is totally different, and is embraced in the following quotation: The claim is—"1. The roasting, or calcining, separately the ores of copper, and the ores of the metals herein specified, by placing these ores in an open vessel in a mundic kiln—so that the vapours from its contents shall escape freely with the vapours of combustion of the iron pyrites, and be condensed at the same time in the vitriol chamber.—2. I claim the disengaging, simultaneously from an open vessel in a mundic kiln, the deutoxide of nitrogen for the vitriol chamber, with that of oxidating the said ores, by mixing with the said ores saltpe by Mr. Bankart, in the columns of your valuable Journal. His letter is emphatically a tissue of errors, which a very ordinary amount of thought,

action of sulphuric acid upon the said ores.—4. I chaim the action of sulphure acid upon the said ores, after they have been treated with saltpetre, or cubic nitre, and either before or after they have been freed from the sulphate, or arseniate, of potash or soda."

I may now add here, that I have the certificates of well-known chemists, gentlemen intimately acquainted with patents, who have declared that my invention is "perfectly novel;" and one of whom adds, in these words, that it is "far more economical and eligible, in a practical point of view, than the process of smelting copper heretofore pursued." So much on the subject of novelty. As regards complexness, a simple statement will clearly show on which side that accusation ought to be affixed. Mr. Bankart recommends, for the extraction of copper from the oxides or carbonates of copper, the mixing them with iron pyrites, and to roast the mixture in a reverberatory furnace, and then to lixiviate. Now, any novice in the science will pronounce, that this is trally a work of supererogation, it being an attempt, as it were, to gild refined gold; for nothing can be simpler, or more effective, than reducing the oxides or carbonates of copper with carbonaceous matter in a reducing the oxides or carbonates of copper with carbonaceous matter in a reducing furnace, as it is at present beginning to be practised in South Australia. I do not think, therefore, that this simple and well-known process of reduction can be improved upon, and it is only when these ores contain sulphurets, arsenurets, and arseniates,

ning to be practised in South Australia. I do not think, therefore, that this simple and well-known process of reduction can be improved upon, and it is only when these ores contain sulphurets, arsenurets, and arseniates, that I would recommend my process to be used.

Mr. Bankart does not seem to be aware of the fact, that the common ores of copper raised in Cornwall contain six times the quantity of sulphur necessary to form a sulphate of copper—consequently, not a particle of a sulphuret, under good management, need be added to these ores; such sulphuret being only required when the copper ore is very rich. Hence, as the average quantity of copper in the Cornish ores is 7½ per cent., and the sulphur at least 92.5 per cent., his process can be but very seldom applied in Cornwall; as, unfortunately, hitherto the ores raised therein have contained but too much iron pyrites—the substance which, it will be recollected, Mr. Bankart, in his claim, adds to them; whereas the principle of my invention is the application of the iron pyrites to calcine the copper ores—not to mix with them.

Mr. Bankart has called in question the possibility of my precipitating, in an hour, 2 lbs. 5 ozs. (misquoted by him 2½ lbs.) of metallic copper per square foot of iron. I beg to inform him, that though this quantity may seem to him extraordinary (for it appears he cannot exceed 4 ozs. per hour), it is strictly correct. I am not vain enough, however, to suppose, that the quantity of 2 lbs. 5 ozs. of copper may not be exceeded by other chemists; but as this was the quantity I found, I have stated it—a comparative test having been made, to determine how much copper could be precipitated in an hour by a square foot of iron, from a solution at the boiling point, and how much from a solution of the same density, and containing the same quantity of copper at the temperature of 60° Fahr., the time being carefully observed by a watch. I am not without hopes, therefore, that even in the hands of Mr. Bankart, he will approach 2 lbs. 5 ozs. of co

According to the clear report of Mr. Phillips, respecting the experiments at the Cobre Wharf, the cost, exclusive of that of iron for precipitating, of a ton of copper precipitate amounts to 94, 188, 8d. Now, so widely different is my process from Mr. Bankart's, that, even estimating a ton of what is familiarly known as brown sulphuric acid, of specific gravity 1.750, to be sold in Cornwall at 34, which acid in London fetches at least 6l. per the sulphuric acid, of specific gravity 1.750, to be sold in Cornwall at 34, which acid in London fetches at least 6l. per to be sold in Cornwall at 3l., which acid in London fetches at least 6l. per ton, and including the cost of iron for precipitating a ton of copper, the whole expense for the reduction of a ton of copper from the ore into ingots will not cost a single pound; and, if the economy of my process were not greater, I should dread for the Cornish miner the competition of our countrymen in South Australia and North America; who, with British energy and almost inexhaustible lodes of the richest copper ores, will produce a keener competition than has been experienced from the foreign ores of Cuba and Chili; but I am happy to add, if the consumption of vitriol in Cornwall and Devon approach that of some of the other counties in Great Britain, the profits will be much more than 9l. 18s. 8d. per ton of copper—for, instead of requiring in the calcining the large quantity of 6 tons 4 cwts. of coal per ton of copper precipitate, my process absolutely does not require a particle of coal—iron pyrites (the attle or rubbish of the copper mines) being the fuel. I have often seen this combastible in a kiln in my experiments produce a heat not a great number of degrees under the inperiments produce a heat not a great number of degrees under the intensity of that of a coke oven. In conclusion, I would give a hint to Mr. Bankart, before he assails another, as he has me, with groundless accusations, to reflect a little. At present, it would be difficult to say what he is; but certainly not what he is not—a chemist.

W. BIRKMYRE.

SIR,—In the Mining Journal of the 27th May, I notice a letter, signed a "Constant Reader." I beg to make a very brief reply to some of his remarks and queries. If the smelters were to reduce the cost of smelting of copper very materially, they could, surely, afford to pay the miners a better price for their ores. This could be done if the disposition existed. I have suggested a very simple plan, and a valuable application of the refuse. I will in my turn put a query—If the smelters persist in rejecting improvements, by the adoption of which they could afford to give a better price for the raw material, what are the miners to do but become smalters. THE COPPER TRADE. selves?-T. H. LEIGHTON: Cwmammon, June 1.

THE ATMOSPHERIC RAILWAY SYSTEM.

SIR.—Having for many years been an advocate for the atmospheric system of propulsion on railways, I have not failed to examine, with the utmost care and impartiality, the various models which have, from time to time, been exhibited. Among these, I, last summer, several times visited the full size working model, on the elastic tube principle, laid down by Messrs. Clarke and Varley, at Blackwall, which then appeared to me to work so well, and hold out such proofs of safety, economy, and speed, and the experiments were so well attended by scientific men, and gentlemen connected with railways, that I was in hopes, ere this, the system would have been adopted by some company, on a scale sufficient to fully test its merits, and its superiority over the locomotive engine. The interest on the subject, which I fancied was publicly gaining ground, appears again to droop; and may I be allowed, through your valuable columns, to ask, whether the parties connected with the elastic tube system, or any other plan, which may reasonably be expected to work well, have any negociations pending with railway companies for a full and fair trial, by which it can be proved beyond a doubt, or otherwise, that the principal content is a superior of the clastic tube system, or any other plan, which may reasonably be expected to work well, have

ciples of atmospheric propulsion are founded on a true mechanical basis, and that its adoption would bring about a most advantageous change in our railway system. I feel greatly interested on the subject, as I am convinced our longitudinal valve, however beautiful in its action, will never secure regularity in the running of the trains, and will-entail upon us great expense, if it does not eventually involve the entire change of the principle on which our railway is now constructed. great expense, if it does not eventually involve and great expense, if it does not eventually involve and principle on which our railway is now constructed.

A SOUTH DEVON SHAREHOLDER.

ON THE ANALYSIS OF CHROMIC IRON. &

SIR,-This species is well known to be most difficult of decor by the processes generally employed, which consist in fusing it with a mixture of nitre and hydrate of potash, or an alkaline carbonate. In these, nowever finely the ore is pulverised, a portion almost invariably escapes

however finely the ore is pulverised, a portion almost invariably escapes decomposition. To obtain the mineral in a state of minute division, Fresenius recommends elutriation, and directs that, after fusion with nitre and carbonate of soda, the portion insoluble in water be digested with hydrochloric acid, and the amount of undecomposed ore be deducted from the original quantity.

This may serve for the analysis of pure homogeneous specimens; but the common varieties are generally, more or less, mixed with foreign substances, and often with silicates of alumina and magnesia, which are lighter than the ore; in the process of elutriation, consequently, the portion of finely-divided ore obtained, suspended in the water, will contain a larger proportion of the impurities than that which remains at the bottom of the vessel. Again, when the powder thus obtained is fused with an alkaline carbonate, the silicates are at once attached, while the portion which remains to be deducted, after the action of both alkalies and acid, is pure chromic iron. In this way a specimen of impure ore will give a per centage

mains to be deducted, after the action of both alkalies and acid, is pure chromic iron. In this way a specimen of impure ore will give a per centage of oxide of chromium considerably below the truth.

While endeavouring to find some more eligible mode of treatment, it occurred to me, that the bisulphate of potash might be used with advantage, and in this I was not disappointed—for I found that, with certain precautions, the mineral might be completely decomposed by it. The chromic iron must first be very finely levigated (a gramme of the crushed ore will require 15 or 20 minutes trituration in an agate mortar); it is then to be mixed with 10 or 12 times its weight of fused bisulphate of potash, and the mixture heated to fusion in a platinum crucible, and preserved at a gentle red heat for about 30 minutes. The crucible and its contents, when cold, are placed in water, which, with the aid of heat, soon dissolves the saline mass. The greater part of the chromium is left as a green basic sulphate, insoluble in water or hydrochloric acid, and apparently identical with that obtained when any salts of chromium are heated with an excess of strong sulphuric acid.

I have found it the heat mode of treating this mixture of soluble and

with that obtained when any salts of chromium are heated with an excess of strong sulphuric acid.

I have found it the best mode of treating this mixture of soluble and insoluble salts, to boil the whole for a few minutes with an excess of carbonate of potash, or soda, which precipitates the alumina, iron, chromium, that may be in solution, and decomposes the insoluble sulphate; it is not easy, however, in this way to remove all the sulphuric acid, and thus render the residue quite soluble in hydrochloric acid; but this is of no importance. The dried precipitate is now to be treated after the process recommended by Fresenius, which consists in fusing it with five times its weight of a mixture of equal parts of nitre and carbonate of soda. The operation should be performed in a platinum, or, preferably, a silver crucible over a spirit lamp, and the mixture kept in fusion 10 or 15 minutes, to ensure the perfect solution of the chromium. The chromate of potash is then dissolved out from the mixture of soide of iron, alumina, and magnesia, which may be separated in the ordinary manner: if the precautions then dissolved out from the mixture of oxide of iron, alumina, and magnesia, which may be separated in the ordinary manner: if the precautions above mentioned have been observed, no trace of undecomposed ore will be left after treating the mixture with hydrochloric acid. A small portion of magnesia remains, dissolved in the filtrate from the precipitate by carbonate of soda, and may be obtained by evaporating to dryness. Any silica which the mineral contained is also dissolved, and may be separated in the usual manner. The presence of a small portion of sulphates prevents the determination of the chromic acid by a salt of lead; we, accordingly, supersaturate the solution with hydrochloric acid, and boil with alcohol, to convert it into chloride of chromium, from which the oxide is to be precipitated, by adding ammonia in excess, and boiling for a few minutes. I have employed this method several times with perfect success; it is easy of execution, and, being free from any sources of error, yields very accurate results.—T. S. Huxt: Montreal, March 25.

NOVA SCOTIA IRON ORE.

Sin,—My attention has been directed to an article that appear aluable Journal of 27th May, signed George Phillips, Old Broad-street, who states that "he is the centre of a considerable circle of intended share holders in the Londonderry Mining Company of Nova Scotia, who are capable of appreciating the richness of the ore, and the value of the property." Yet he would keep aloof until his mind was satisfied of certain fantacies, conjured up by his own imagination, in respect to Mr. Mushet's connection with the Nova Scotia Mining Company, and the reward that should be the due of the individual who had discovered the method of

connection with the Nova Scotia Mining Company, and the reward that should be the due of the individual who had discovered the method of making cast-steel by simple fusion from the ore, whether Mr. Radley, Mr. Mushet, or Sir T. Lethbridge.

What connection these important matters, in the opinion of Mr. Phillips, have with the proceedings of the Nova Scotia Mining Company, I felt a desire to know something more of this Mr. George Phillips of Old Broad-street, who had placed himself in the centre of a considerable circle of intended shareholders, capable of appreciating the richness of the "Nova Scotia ores," and had recourse to a directory to inform me whereabouts the centre of this considerable circle could be found; but, owing to "something mysterious," the directory does not afford the requisite information. But let me inform intending shareholders, boyond the influence of Mr. Phillips's circle, that there is, in Old Broad-street, a "mysterious something," which is the centre of a circle, who do understand the value of the mines of Nova Scotia, and who have displayed a very indiscreet uneasiness, lest others should taste and appreciate the sweets they now enjoy unmolested. I happen to have, among my papers, a Halifax newspaper, containing the proceedings of a public meeting, held in Halifax, Nova Scotia, for the purpose of taking preliminary steps towards the formation of the company now incorporated as the "Nova Scotia Mining Company." The Hon. S. Cunard, who is the principal agent for the General Mining Association in Nova Scotia, appeared at that meeting. I presume that, from his connection with the General Mining Association, he would not be disposed to give an exaggerated description of the value and extent of those mines. May I ask you, with a view to remove from "the circle of intended shareholders," any suspicions that might arise from Mr. Phillips's insinuations, as respects the value of these ores, to publish Mr. Cunard's opinions as they appear in the accompanying Halifax Times newspaper, which wil

MB. CUNABO'S OPINION OF THE LONDONDEBRY IBON AND COAL DEPOSITS WHO. SANGEL CUNAND'S OF THE LONDONDERRY HEND AND COAL DEPOSITS.

"Hon. SANGEL CUNAND said, that as his name had been mentioned, he would state that he had visited these mineral deposits with scientific men, and had no doubt himself but that they were exceedingly valuable. All that they wanted was capital to turn these resources to a profitable secount. With regard to the shipping place, it could be seen from the site of the mines. There was a singular combination of coal, iron, and lime there, which was wanted at Annapolis. If he had these mines in his possession, he was satisfied he could do something with them which would be beneficial to himself, and to the country.—[In answer to a question from the Hon. Attorney General, Mr. Cunard said, that the ore at Londonderry, was far richer than that at Annapolis.]—The ore was indeed very rich, and the quantity he believed was sillimitable. \* \* \* He also stated that, if this ore at Londonderry, was far richer than that at Annapolis.]—The ore was indeed very rich, and the quantity he believed was illimitable. \* \* He also stated that, if this valuable deposit of minerals had been reserved in the grants of the Crown, and conveyed to the General Mining Company, they would have had an establishment at Londonderry by this time, worth 100,000/. The hom. gentleman also referred to the saving of the Eoyalty, which owing to these deposits not being reserved, any company that worked hem, would not have to pay.

+ THE METAL TRADE-THE BANK OF ENGLAND.

SIR,-As if the times were not already bad enough with the proprietor of copper-works, and the poorer proprietors of iron-works, tin-works, che of copper-works, and the poorer proprietors of iron-works, tin-works, chemical-works, and collieries, in this neighbourhood, the directors of the Bank of England have lately come into competition with them, carrying on the works of the Governor and Company of Copper Miners after a fashion. The reckless proceedings of those latter did mischief enough to their neighbours, by their system of giving higher wages, and selling their produce at lower rates than others; but people bore with them, knowing their end was a matter of time only; but it is really too bad to have the Bank of England, with their thousand advantages in the market, as dealers in copper, iron, tin, naphtha, and coal. The object of my letter is to ask some reader to inform me, if the Bank of England Charter gives authority to the directors to become traders as above?—P.: Neuth, June 6. OXIDE OF ZINC AS A PIGMENT.

OXIDE OF ZINC AS A PIGMENT.

Sir.—There is an unfortunate perversion of reason in human nature, by which, in all cases, where a person puts himself forward with information for the public welfare, although evidently under disinterested circumstances, the most impure motives are attributed to him, and such as probably never in the remotest degree entered his imagination. In my communication to you, published in the Mining Journal of 27th ult, on the "Oxide of Zinc as a Pigment," I merely made a statement of facts which are well known to scores of persons in London and Swansea; and yet I am attacked by Mr. Leighton as being a party "interested in lead ores, or the sale of white lead." Now, Sir, I am neither interested in one or the other; nor do I think that, should the pure oxide of zinc be valuable as a pigment to the extent stated by "A.," Liverpool, and thus naturally come into extensive use, that it would injuriously affect the production of lead ores, or that it would provent the manufacturer and merchant, engaged in the production and sale of white lead, from diverting their capital and skill into the new channel thus formed by the introduction of a more economical and preservative pigment. All I have to say, with regard to Mr. Leighton's suspicions, is—I should have expected a little more courtesy from such a quarter. With respect to the purity of the oxide obtained, and the nature of the process, I can only inform Mr. Leighton and "A." that the ore employed was "blende" (sulphuret of zine). The furnaces employed for calcining the ore, and freeing it from sulphur, as also the condensing chambers for collecting the oxide in powder, were on a new and patented plan—while the reduction of the oxide to metallic zine was not widely different to the plan at present in use on the continent. At the time of conducting the experiments, the oxide was considered free from sulphur, and the metallic zine produced pure, and rolled into sheets with facility—many specimens of which, of various thicknesses, I inspected at t

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CAST-STEEL.

CAST-STEEL. 

Sir.—The daily triumphs of chemical and mechanical power are fast driving the word "impossible," with respect to anything which does not involve a contradiction, out of our vocabulary; this does not, however, seem to be the creed of "A Steel Manufacturer." who says, in your last, "small articles cannot be cast in steel with any degree of soundness or sharpness; the metal sets immediately on being poured into the mould, and is of so susceptible a nature that it shrinks from contact with anything, and would not receive a fine, or sharp, impression." Would not red-hot moulds produce a greater degree of both soundness and sharpness.

Penzance, June 5.

DEFERM OF THE PATENT LAWS

Penzance, June 5.

REFORM OF THE PATENT LAWS.

Sin,—I see, by the last week's Mining Journal, that a correspondent, in writing about the Reform of the Patent Laws, says, that if divested of the fees, the present patent system would be good. I have experienced the evils of the present patent system would be good. I have experienced the evils of the present patent system, but I think that the fees constitute the least objectionable part of it; I also differ from your correspondent in respect to his opinions of the uselessness of the lawyers: I believe that all true men of genius are lovers of justice, and that, while there are any good and true men existing, law will always be useful to society; but, then, on the other hand, justice forms no part of the present system for securing to inventors an interest in their own inventions. There is not the slightest protection against fraud, for an inventor-may be surrounded on all sides with snares. It is not right that rich men should have power to take out patents for the inventions of others; I think that Mr. Campin's petition very clearly points out the evils of the present system. A system which shall operate with complete justice in all cases, is, no doubt, very difficult to construct; and, perhaps, such a system could not be proposed by every individual; but I think that the present patent system is a disgrace to any country which professes to be ruled by religion, wisdom, and justice.

London, June 3.

THE PATENT LAWS.

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THE PATENT LAWS.

SIR,—That a great reduction in the patent dues might prove a great evil, and render "confusion worse confounded," by engendering a multiplicity of frivolous patent rights, as anticipated by Mr. Martin, I am really afraid would be too true; and it is the continual presence of this idea to my mind, that has induced me to put forward such moderate propositions, for the amendment of the Patent Laws, as I have done, wherein I do not propose cutting down the fees to a mere nothing, but only the payment of the same amount of fees as is now paid, but by instalments; which the exercise of a little arithmetic will show must be fixed at a sum of sufficient amount, to deter persons from taking out letters patent for merely trivial modifications; but should the amount of the fees not be such as sufficiently to deter the frivolous from placing obstructive monopolies in the way of manufacturers and artizans, we have but to require of the learned judges, that they carry out, with due strictness, the law, as laid down in the statute of monopolies, 21 Jac. I., c. 3, s. 6 (that great keystone of the patent system), which declares, that letters patent are not to be accounted valid for anything manifestly to the hurt of trade, or generally inconvenient; or, as Sir Edward Coke (3 Inst., 184) says, that to deserve the patent "privilege, there must be urgens necessitas and evidens utilities;" and, although there has hitherto been great tenderness exercised in the practical adoption of this doctrine, still the law, as it at present stands, seems quite competent to deal with such grievances, should they occur; but should mature deliberation show it to be advisable to have a further safeguard against the occurrence of such abuses, which I very much doubt, I would propose that all applications for patents, stating the real title of the invention, be gazetted for a certain period, giving all persons the right of opposing for a small fee, but making the applicant pay full fees if he were nonsuited. This would make applican

for patents as above is a mere incidental suggestion, and one that I have not considered in all its bearings; and, moreover, I can see that some objections might be urged against it, though I conceive they will, on examination, be found groundless.

After all, should some inconvenience arise from the register of patents being augmented, as regards frivolous inventions, it will be more than compensated for, by the accession of a great number of really-important inventions—for, although it be true, that "one that is good for anything is generally worth the present cost of a patent," and this no one is so ready to admit as the inventor; yet if he be of moderate means, who is to pay the money? Of course, he must apply to the capitalist, allow him to dictate his own terms, and, perhaps, incur the risk of having his invention filched away from him. In fact, the present system, like other portions of our legal system, permits the money-capitalist to ride rough-shod at pleasure over the skill-capitalist; indeed, nothing but the great extent to which probity prevails amongst the commercial classes of this country, keeps these matters so clear as they are from the entanglements of dishonesty; still wrong doing occurs often enough to render this state of things an evil of some magnitude, which it is desirable to remove, and which may be removed by the means I have pointed out; because, by allowing an inventor, after he has paid his first instalment, to take up the title deeds to his property—i. e., letters patent—in negociating with the capitalist, he is in the position of one who is already in possession of a property—whereas, he now generally stands in the position of a party who has property in prospective, from which he may be ousted by intrigue and chicanery.

I am glad to see, from a communication in your last, signed "A Paetentee, who has paid for Experience," that the maintenance of a classified register of patents, and an accessible record office, is regarded by patentees,

Perty in prospective, from wheathers are a factories, who has paid for Experience," that the maintenance of a classified register of patents, and an accessible record office, is regarded by patentees, in its true light, as a point of first-rate importance; for so convinced am I, that this would place patent property on a much surer basis than now, and facilitate business, that I would, did my avocations as a patent agent permit, undertake the task of making the classification, provided the Government would allow access to the materiel, without payment of fees. Even as it is, would they do this, I should be happy to assist in the task. As we now stand, although we have lists which are indexed to a certain extent, yet no one could affirm them to be exactly authentic; they are as correct as we can get there—and that is all that can be said of them.

In conclusion, allow me to express my satisfaction at the announcement, that the British Inventors' Protecting Society intends to move forward with spirit; great praise is due to the members of this body. They have already—though newly started—assisted a highly-ingenious man to battle successfully against the present disgraceful patent system, and secure his rights; and trusting that the day is near at hand, when every man, who exerts himself for the common good, may, by the aid of improved laws, and the exertions of such institutions, not fail of obtaining his reward, I heartily wish them "good speed."

F. W. Campir.

Patentaloffice. 210. Strand, June 7.

heartily wish them "good speed."

Patent-office, 210, Strand, June 7.

# Seology of the Esthmus of Panama, BY E. HOPKINS, C.E., F.G.S.

These salinas are the production of sea water, which, during spring tides, spread over extensive plains; and the salt is obtained by spontaneous evaporation within embankments made for that purpose. In these warm climates the evaporation is very rapid; and by judicious arrangement in the mode in which the sea water is brought to the crystallising-pans, a very considerable quantity of salt may be obtained in a short time, and at a small expense.

The salt made by the spontaneous evaporation of sea water, even under the most favourable circumstances, is not as pure as some of the rock salt, or saline springs; however, the salt from these salinas may be made much purer than it is now prepared. The saline contents of the Pacific border-ing the isthmus are, on an average, about 3.60° per cent.—viz.:

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or saline springs; however, the salt from these salinas may be made much purer than it is now prepared. The saline contents of the Pacific bordering the isthmus are, on an average, about 3\*60\* per cent.—viz.:

Chloride of sodium (common salt) ... 2\*56
Chloride of magnesium ... 0\*36 | Deliquescent bitter salts. Sulphate of magnesia ... 0\*36 | Deliquescent bitter salts. Sulphate of lime and magnesia ... 0\*36 | Sparingly soluble salts.

According to the chemical character of these salts, the common salt must crystallise after the deposition of the sparingly soluble salts, and before the crystallisation of the deliquescent salts. Hence we have three important stages to be attended to—viz. 1st. To receive the sea water in large shallow reservoirs, and expose it to the heat of the sun for several days to evaporate, so as to cause a large proportion of the sulphate and carbonate of lime to deposit before supplying the canals.—2d. The canals, between the reservoir and the crystallising pans, should be made broad and shallow, so that the water may be further concentrated before entering the pans; the latter should not be filled above one or two inches deep each time; by this means the salt will soon crystallise, and, if broken and taken up immediately, it will be nearly pure salt.—The 3d stage is the removal of the bitter solution, or deliquescent salt, remaining in the pan after the crystallisation of the common salt. The sulphate of magnesia, having a solubility in water about one-half more than that of common salt, will not begin to crystallise until more than 3ths of the water is evaporated; therefore, the admixture of these bitter salts can be easily avoided by lading out the remaining liquid immediately after the extraction of the common salt; by this means a very pure salt may be obtained.

The method adopted at present is imperfect. They let in the sea water direct into the canals, and these canals are somewhat narrow and very deep, and not adapted for rapid evaporation, and the deposition of the calcareous matt

There is much greater proportion of lime in the South Sea than in the North—particularly in the Pacific. Although the chemical analysis of the Northern Sea has not shown silica to be one of its essential constituents, yet I have no doubt (from observations made and obtained whilst on the Pacific) that silica and alumina form an important proportion in the Southern Sea. In the antartic region, the sea is as thickly linabiled by the silicacous-shelled infusoria, as the tropical zone is in the growth of corals. The monthly steamers, running between Chill and Panama, require frequent cleaning, an consequence of the increased contonts of the saline matter of the south. The tides of the Pacific are propagated like large waves from the south—much higher along the western coast than in the middle of the Pacific. The configuration of the Isthmus of Panama being nearly at right angle to the direction of the current of the tidal wave, its dammed up, as it were, and thus causes a rise, varying from 20 to 22 feet, at high-water. At Chagres, on the opposite coast, in the Caribbean Sea, the tide is scarcely perceptible; for the same reason, the mean height of the sea at Panama is a few feet higher than at Chagres. The mean temperature of the sea at Panama is a few feet higher than at Chagres.

NEW METHODS OF SEPARATING NICKEL AND COBALT

NEW METHODS OF SEPARATING NICKEL AND COBALT.

1. METHOD BY H. Rose (Royal Academy, Berlin, June 14, 1847, L'Institut., No. 727).—The mode of separation, proposed by Mr. Rose for these two metals, sests on the fact that, in a solution of oxide of cobalt, which contains free hydrochloric acid, this metal may, by means of chlorine, be wholly transformed into perchloride, while the chloride of nickel suffers no such change in an acid liquid. To employ this means of separation, the two metals are dissolved in a decided excess of hydrochloric acid; the solution is then largely diluted with water, and a current of chlorine gas is passed through it for several hours until the liquid is completely saturated therewith. Carbonate of baryta is then added in excess, and the solution-left for 12 or 18 hours in a cool place, and frequently agitated. The peroxide of cobalt, which is precipitated with the excess of carbonate of baryta, is washed with cold water, dissolved in chlorohydric acid, and, after removal of all the baryta by sulphuric acid, the oxide of cobalt is precipitated by solution of potash, and, after washing and drying, is reduced in a platinum or porcelain crucible by means of hydrogen. The filtrate, from which the cobalt has been separated, is of a pure green colour, and is perfectly free from any traces of oxide of cobalt. After separating the excess of baryta from this filtrate, the nickel is thrown down by a solution of potash. This method can be advantageously employed in preparing these two metals in a perfectly pure form. in a perfectly pure form.

in a perfectly pure form.

2. Method by Liebic (Extract of a letter from Baron Liebig to Professor Horsford, of Cambridge; communicated for this Journal).—The two oxides are covered with prussic acid, and then potassa is added till both are dissolved. The solution is then kept boiling through a quarter of an hour. At the conclusion of the boiling, moist hydrated oxide of mercury is added to the hot solution till a part remains undissolved. There occurs a green precipitate containing all the nickel, with an excess of undissolved oxide of mercury. By ignition there remains pure oxide of nickel. Acetic acid is added to the filtrate till the reaction is acid, and then thrown down with blue vitriol. The blue precipitate contains all the cobalt. This is dried, ignited, re-dissolved in hydrochloric acid, the copper precipitated by hydrosulphuric acid, and then from the filtrate, the cobalt with potassa. The method depends upon the fact that nickel-cyanide of potassium is decomposed by oxide of mercury, while cobalto-cyanide of potassium experiences no change.—Silliman's American Journal.

On the Separation of Silver.—In a recent communication made to the Paris Academy of Sciences, MM. Malaguti and Durocher show that all the metallic sulphurets and arseninrets, properly so called, decompose a certain quantity of chloride of silver. This decomposition is effected more or less slowly when the contact is made with dry salts; but it is accomplished more rapidly, and in some cases even instantaneously, when the chloride or bromide of silver is in solution:—100 parts sulphuret of zinc decompose 3 chloride of silver.

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" bismuth 2 "
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## On the Winning and Working of Collieries.

BY MATTHIAS DUBN, MINING ENGINEER.
No. VII.—Costinued from the Mining Journal of the 3d June. VARIOUS MODES OF LETTING COLLIERIES.

The principle upon which rent is reserved in the leasing of collieries varies in different districts, according to ancient custom, or some peculiar circumstance; but the basis is founded upon the profit to arise from the fair and proper working, and the extraction of the greatest quantity of

coal possible from the mines. In many cases the custom was established under circumstances totally different from those subsequently brought about; but, as I said before, all are more or less intended to bear upon the most effective working of the mine and the selling of the produce. Hence the now universal custom of reserving the rent upon one or other of the following principles:-

following principles:—

1. Rent upon tonnage.

2. Rent upon amount of sales.

3. Rent by acre of coal, 1 ft. thick, and so in proportion.

4. Rent certain—a certain sum per annum, independent of the quantities of coal that may be raised from the property—but this principle of letting is now nearly obsolete, because wanting in equity.

1. The Rent upon Tonnage—Is prevalent over the north of England, and other parts in which the amount of sales of the coals is difficult to ascertain—one price being allotted to the round coal, and a proportionate rent to that of small passed through a screen of certain defined dimensions. It is rendered a principle next to imperative, in the Newcastle collieries, because in the vending of coals, whether to manufacturers or to the sea, freightage and railway dues are generally adverted to, whereby the coal owner becomes the merchant; hence the actual returns of sales of these coals can only be procured after the lapse of considerable time, and under such devious and complicated accounts, that it would ill suit the landlord to embarrass himself, with the investigations necessary to reduce the rents to a per centage of the amount of sales; hence the general custom of levying the rents per ton of round coal and of small coal. These rates, of course, differ according to the relative advantages of locality, the value of the coal, cost of winning, expense of working, &c.; but they may be stated in this country at for round coal 6d. to 12d., and for small coal 2d. to 4d. per ton; at the same time, a certain annual rent floats over the property, payable on account, until the periodical settlement of the quantities be made. In the provision for rent there is always sufficient time allowed to win and open the colliery, before the commencement of the payments. I will here enumerate the general clauses inserted in colliery leases in this district.—1. Term of years determinable on the part of the tenant at any or at certain periods of the lease, by giving 12 months notice in writing.—2. Certain rent, payable half-yearly, without regard to the working of coals, or at the option of the landlord, so much per ten (48 tons) for round coal, and so much for small, passed through a screen of certain dimensions; or so much for coals just as they are brought from the mine, but sold, the colliery consumption being thereby allowed rent 1. THE RENT UPON TONNAGE—Is prevalent over the north of Engtons) for round coal, and so much for small, passed through a screen of certain dimensions; or so much for coals just as they are brought from the mine, but sold, the colliery consumption being thereby allowed rent free.—3. Tenants to be liable to all surface damages (generally double the annual rent), and, at the expiry of the term, to restore or pay for such damaged land, according to the arbitration of dishierersted persons.—4. Power to make up shorts, for rent prepaid—that is, by working up quantities of coals at the agreed rate per ton, such privilege to remain either for certain periods, or during the whole term.—5. Lessee to leave certain defined barriers of coal against adjoining properties.—6. Power of working other properties by outstroke underground, paying for the same, according to circumstances, one or more of the following privileges:—

For ten of 48 tons.

For way-leave rent over the surface

7. Landlord reserves all power and privilege of examining the mine, the books, measuring the waggors, or tubs, &c., with power to levy for over measure.—8. All buildings of brick or stone to be left to the landlord at the end of the lease.—9. Landlord to have power to purchase any part of the stock by giving — months' notice previous to the determination of the lease.—10. Lessee covenants to work fairly and orderly, according to the most approved principles of mining; otherwise, in case of misconduct, to lease.—10. Lessee covenants to work fairly and orderly, according to the most approved principles of mining; otherwise, in case of misconduct, to be liable to damages, with power for the landlord to re-enter the lease. The same applies to unpaid rents.—11. Lessee allowed to dig clay, quarry stones, &c., for the purposes of the colliery, rent free.—12. Lessee bound to leave the colliery in a fair tenantable condition, with proper passages to the whole coal, &c., otherwise liable to damages.—13. General clause for reference, in case of dispute upon any subject arising out of the lease.

reference, in case of dispute upon any subject arising out of the lease.

2. Leases upon Amount of Sales.—Throughout Scotland, and many other coal districts, it is customary to levy the rent upon a proportion of the amount of the value of coals sold, and this rent varies from 1-5th to 1-15th, according to the value of the coal and the cost of producing it. In some cases, a colliery is re-let which is already won and in course of working, whereas another is to win, atgreat risk and capital. Such rents, therefore, are generally payable upon the value of the coal at the pit top; so that the expense of delivering them at the depôt, or place of shipment, is deducted from the value at such distant place before estimating the rent. This is a very fair principle of proportioning rent; but, where the coals are conveyed to distant markets by the proprietors, and the sale is devious, it becomes difficult to apportion the value.

it becomes difficult to apportion the value.

3. Leases per Acre.—Throughout Lancashire and the neighbouring counties, it is common to let or sell coal by the Cheshire acre, which consists of 10,240 square yards, instead of the statute acre of 4840; the lessee being also bound to a certain rent, equivalent to so many acres per annum, at the agreed price per acre. In this case the tenant is left to work the colliery to the best advantage, in regard to the getting out of all the coal possible, inasmuch as it is assumed to be paid for as totally worked. The price per acre differs according to the ever varying circumstances of collieries; but, in order to apply the principle to every variety of seam, it is levied at so much per foot thick per acre, the said footage ranging from 40t to 140t, per acre; and, in order to arrive at the proper quantity worked each half-year, the average thicknesses of the seam are taken throughout the workings, and the quantities computed, each year's measurement being differently coloured upon the plan, and the workings balanced and accounted for, along with the certain rents payable on account. However equitable in principle this mode may be, it leaves too much of calculus in the office of surveyor; for many parts of the mine may become inaccessible from one period of measurement to another, and may also be irregular in thickness, on account of bad coals or bands, or other reasonable drawbacks. But, by force of custom, the different means in neighbourhoods where they are known assume a sorref current value, which becomes sufficients as a street current value, which becomes afficients as a street current value, which becomes afficients as a street current value, which becomes afficiently as in the content of the content o thickness, on account of bad coats or bands, or other reasonable drawbacks. But, by force of custom, the different seams in neighbourhoods where they are known, assume a sort of current value, which becomes sufficiently satisfactory. This mode of estimating the rent is in favour of the lessee, whose knowledge, experience, and capital, induce him to carry on the most improved system of working, whereby either a larger quantity of coal than ordinary may be produced from the mine, or a greater proportion of larger coal yielded, inasmuch as the rates of rent have been founded upon the average produce, or the grantal practice in the district. The available larger coal yielded, inasmuch as the rates of rent have been founded upon the average produce, or the general practice in the district. The available produce of ordinary mining may be stated at three-fourths of the gross contents, and of those three-fourths a certain proportion consists of small coal, over and above that which is left underground. If, therefore, by an improved mode of working, these available proportions can be amended, it amounts to a reduction of the ordinary rent. A Cheshire acre of coal, 1 ft. thick, may be said to contain 3000 tons; supposed to be left underground, in pillars and small coal, 800; available, 2200; suppose small at surface and colliery consumption, 600; produce large coal, per foot thick, per Cheshire acre, 1600 tons. per Cheshire acre. 1600 tons

4. Leases for Certain Rent only—Were common in former times, in which grants from the crown, or of manors, where the existence of coal was uncertain or problematical, or in properties so small or so isolated as to be incapable of competition in the market. The want of the clause for tonnage has been known to invalidate colliery leases in the Court of Chancery.

[To be continued in next week's Mining Journal.]

A New Mineral Useful in Arts.—We learn that Mr. Blake, of Akronobic (U.S.), has discovered a mineral, in the neighbourhood of the latter place, which promises to be of great value. He has visited Washington, and obtained a patent for it. "When first dug up, it is of the consistence of tallow, and gradually hardens in a few days, so as to resemble slate, and finally it becomes as hard as rock. It is of the colour of indigo, is impervious both to water and fire, and admits of the finest polish. When reduced to powder, and mixed up with linseed oil, it has the appearance of black paint, and may be spread over wood, canvas, &c. Roofs have been guarded by it against fire; and as it does not absorb the rain, it protects the raftear from decay. It consists of about one-half of silica, one-fourth alumina, with less proportions of magnesia, black oxide of iron, sulphate of iron, lime, and carbon."

Mining Operations in Resonda Valley.—This rich and interesting district is daily becoming more and mere developed. The Messra Hedley and Co., on Saturday evening last, struck an excellent vein of coal, 3 feet 2 inches thick, in their Troedyrhiw pit, 29 yards deep. These gentlemen have a level also opened upon the same vein on Tynnewyld farm, and are prepared to send a large quantity per diem into the market. The Rhondda extensions, it is expected, will be immediately proceeded with by the Taff Vale Railway Company, who have, indeed, already done wonders in rendering conveniences and constructing branch railways for the transit of the minerals of the district to port; and it is to be hoped, that every landowner will affer no futile obstruction to the extensions, by putting extravagant prices on their land, or the directors of the company be influenced by private interests in the postponement of the same, or either of those evils, by delaying the extensions, will damp the ardour of enterprise in these valleys, and direct its course elsewhere, which all parties interested here should depricate and try to avert. Messra Insole have also commenced working their new balance machine at Cymmer pit, and about 40 tons of the coal (known as Coffui's coking coal), were sent down by rail on the 80th May, being of superior quality and appearance. Messra I. are also opening on another vein by level near Dinas. The Ynyshir colliery is also in a way to send 30 or 40 tons per diem down; and there are two other properties of great extent up the valley; one on the coking coal seam, and the other on the smokeless, or steam-boat coal seam, now in trenty for. The enterprising spirit of several capitalists having been for some time directed to this district, it is to be hoped the Taff Vale Railway Company will, by their promptitude in meeting the views of mineral proprietors and freighters, give an additional stimulus thereto.—Merthyr Guardian.

JONN-Stook Companies.—The total amount of fees paid at the office for

stimulus thereto.—Methyr Guardias.

JONN-STOOK COMPANIES.—The total amount of fees paid at the office for the registration of joint-stock companies during the year 1847, appears to have been 4155L, including 548L for the registration of returns, 769L for the perusal of deeds of settlement and abstracts, 1040L for certificates of provisional registration, 84L for renewed certificates to that effect, 141L for annual cartificates, 485L for certificates of complete registration, 748L on capital of companies completely registered, 80L for searches, and 167L for office copies. The number of companies provisionally registered in 1847, amounted to 215, the number of companies provisionally registered to 98, and the number provisionally, but not completely registered, to 178. The registration office employs a registrar, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, to 178. The registration office employs a registrar, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, a deputy registered. Mr. J. Whitemarsh, with a salary of 800L, a deputy registered, Mr. J. Whitemarsh, with a salary of 800L, and five clerks with salaries of 80L. The number of bankruptics of joint-stock companies which took place in 1847, amounted to four. Three were railway companies, and one a cemetery company. Of three of these associations the debts were not ascertained; of the fourth (the Birmingham and Boston Direct Railway Company), the debts amounted to 5059L 6s. 10d., and the assets to 24L 10s.

The LANDED PROPRIETORS OF IRELAND.—From the Registrar's Office of

Direct Railway Company, the debts amounted to 5059, 0s. 10d., and the assets to 241. 10s.

\*\*The Landed Proprietors of Ireland.—From the Registrar's Office of the Court of Chancery, and the Chief Remembrancer's Office in the Court of Exchequer, in Ireland, an abstract return has been issued, showing the number of causes, rental of estates, arrears of rent, gross amount of costs paid by receivers, and amount expended in improvements in each county in Ireland during the years 1844, 1845, 1846, 1847, with reference to estates under the management of the said courts. The following statement will illustrate the perplexing position of landed proprietors during the year 1847.—Number of estates under the management of the Court of Chancery during that year, 1840; yearly rent, 687,524f. 6s. 9d.; arrears when receivers last accounted, 493,191f.; gross amount of costs paid by the receivers is accounted, 493,191f.; gross amount of costs paid by the receivers during the year, amount expended in improvements during the year, 2555f. 2s. 1d. 1t will thus be seen that the gross amount of costs paid by the receivers during the year, amounted to within 1200f. of the whole amount in arrear at the time of their appointment. The number of estates under the management of the Court of Exchequer was 448; yearly rent, 155,402f.; arrears when receivers appointed, 61,779f.; arrears when receivers last accounted, 171,839f. Gross amount of costs paid in by receivers since their appointment, 88,057f.; amount expended in improvement, 0!

last accounted, 171,639%. Gross amount of costs paid in by receivers since their appointment, 38,057½; amount expended in improvement, 0!

Fall of the Meiklewood Suspension Bridder.—We regret to say that this handsome and useful structure across the Forth, which was erected 17 years ago by the late Colonel Graham, of Meiklewood, fell into the river on Monday last, in consequence of the dry rot having seized the principal timbers. This bridge was erected on the thrust and tension principle, which is the same as that which sustains the tube lately erected across the Conway, having a span of 400 feet. The span of Meiklewood Bridge was 101 feet; and as a proof of the strength of this principle of structure, the bridge continued to carry heavily loaded carls for months, if not for years, after the dry rot had so pervaded the main timbers, that almost the whole body of the beams were decayed. The main beams were of Memel, of excellent quality, and had not the slightest appearance of taint, or rot, when erected. The disease had partially extended to the eyerights and other parts of the wood work. On the Thursday preceding the fall, five carts heavily loaded with barley passed along the bridge with safety—slight symptoms of the decay were observed on Saturday. The bridge fell when no man was upon it, and when parties sant to inspect it were just approaching. The wreck is now being removed from the bed of the river; but, from the excellence of the iron material, and closeness of the fittings, there is great difficulty in getting the structure as under. The want of communication between the counties of Perth and Stirling, at this point, is seriously felt; and we have no doubt but that measures will speedily be taken for having the bridge, which has so unfortunately fallen, replaced.—Scottish Railway Gazatta.

The Calebonian Railwax.—The progressive improvement in the returns of the rotage falls and must have always desided the most securities as to inspect and the returns of the rotage falls and must have always desided

which has so unfortunately fallen, replaced.—Scottish Raihway Gazette.

The CALEDONIAN RAILWAY.—The progressive improvement in the returns of this undertaking must have already satisfied the most aceptical as to its remunerative character, as they afford the best grounds for continued and increasing confidence in its future prospects. The weekly revenue has now reached within a fraction of 4000l., and that too in circumstances of unprecedented commercial distress, and with the main line to the north still unfinished. Indeed, one of the greater feeders of the line—the Scottish Central—has not yet been enabled to contribute or receive any portion whatever of the through traffic between London and the north of Scottand. There is also the western communication to the north in connection with the Caledonian, which, when completed, will largely augment the traffic. In the present position of the line, therefore, any estimate of its return to the shareholders upon the present revenue would be necessarily very imperfect. At the same time, it is satisfactory to find that the present weekly receipts, taking the average at 4000l., would yield a very handsome dividend upon the capital embarked in those portions of the line now in operation. We believe it will be found that, after paying the stipulated rent for the Garnkirk and the Wishaw and Coltness—a trifle less than 50,000l.—and allowing 33 per cent. for working expenses, even the present amount of revenue would, yield not less than 5 per cent. There is, however, every prospect of the receipts being augmented as the other portions of the line are brought into operation, and the proper connections of the company are combined with the Caledonian system. It is exceedingly gratifying to those who, like ourselves, have always placed confidence in this undertaking, to find these anticipations of its success so signally and rapidly verified by actual results.—Scottish Railway Gazette.

\*\*Lancashine\*\* And Yorkshire\*\* And Great Northeen Railway.—The

these anticipations of its success so signally and rapidly verified by actual results.—Scottish Railway Gazette.

\*\*Lancashire And Yorkshire and Great Northern Railway.—The opening of the Askern branch of the Wakefield, Pontefract, and Goole Railway, and also of about four miles of the Great Northern, took place on Monday last. The Wakefield and Goole line is a branch from the Lancashire and Yorkshire (late Leeds and Manchester), and the Askern branch forms a junction with the Wakefield and Goole at Knottingly, from whence it proceeds to Askern, a well-known bathing place, about six miles from Doncaster. At the terminus, a little beyond Askern, a junction is formed with a part of the Great Northern, north of Doncaster, which is now completed within a mile and a half of that town, thus forming a direct communication from this point (the first by railway from Doncaster) to Leeds, Manchester, Liverpool, Bradford, Huddersfield, and the north generally. The Wakefield Pontefract, and Goole line was opened about six weeks since, and since then several trains have been running daily from each terminus. The Askern branch is expected to be the main line from London to Leeds, &c., as soon as certain portions of the Great Northern are completed. It commences at Knottingly, a large village famous for its limestone quarries and canal navigation, and proceeds from thence to Winnersley, where it passes the seat of Lord Hawke, the lord of the manor, whose fox-hunting zeal is well known for a considerable distance. The line next passes Stapleton Park, the villages of Wentbridge, Stubbs, Walden, and Little Smeaton, and crosses the River Went. It next approaches Norton, Campsall, and Askern. This has for some years been a watering place, and famous for its celebrated mineral springs, which are frequently resorted to for scrofulous, rheumatic, and gouty complaints. Hore the line terminates at a blace called Regdolme Wood, where the Great River Went. It next approaches Norton, Campsall, and Askern. This has for some years been a watering place, and famous for its celebrated mineral springs, which are frequently resorted to for scrofulous, rheumatic, and gouty complaints. Here the line terminates at a place called Reedholme Wood, where the Great Northern runs into it, and thus the route is completed to Stockbridge, about a mile and a half from Doncaster, that small distance being expected to be opened in a few weeks. In order to convey passengers northwards, a line is contemplated between Knottingly and Burton-Salmon, a distance of about three miles; an Act for this has already been obtained—and until this line is made, an omnibus will run between those two places. It is expected, however, that ultimately the Great Northern Company will make their line direct from Doncaster, through Askern, Selby, &c., to York, and so make an independent line throughout. The whole of the proceedings passed off without accident.

AMERICAN STEAMERS.—Dr. Scoreaby remarked, in a fecture which he delivered in Bradford, on the 25th May, that the recklessness and daring of the Americans were remarkable, and might be well illustrated by the value which appeared to he ast upon life in their steamers. British steamers sailed across the Atlantic at a pressure of steam from 6 lbs. to 7 lbs. on the square inch. The American Atlantic steamers professed to work at a pressure of 20 lbs. on the square inch, while, on the Mississippi, a pressure of 50 lbs., 100 lbs., and 200 lbs., and even higher, was had recourse to—it was, consequently, very easy to account for those tremerdons explosions so frequently occurring on those rivers. Dr. Scoresby mentioned several of these explosions as cases in point—showing that the passengers were equally to blame with the captains of the steam—boats.

SOCIETY.

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SOCIETY.

Society of Provisionally, under the Act of Parliament, 7 and 8 Fig., c. 110.

Tomporary guarantee fund, £100,000.

In 5000 shares, of £20 each.—Deposit £2 per share.—In pursuance of the Registration.

2s. per share only will be payable on taking up the shares.

One-tenth of the entire profits of this association to be applied to form a fund, for secunantifies to aged members and their reviews and orphans—to the relief of deservand distrement minute—and towards founding and supporting charitable institution connection with mining inforcess.

PRELIMINARY PROSPECTUS.

Connection with mining interests.

PRELIMINARY PROSPECTUS.

As the knowledge of the principle of life insurance has been more and more diffused, and the manifold advantages of the system appreciated, the number of assurance offices has been constantly and rapidly on the insercase. Nevertheless, the persons who have hitherto availed themselves of the benefits of this system, are comparatively few in number. Of this 20,000,000 of inhabitants of Great Britain, not more than 120,000 persons have taken out patients on their lives in all offices; so that if may not be loo much to say, that the system of 160 insurance has carcely passed the first stage of development.

This fact alone is sufficient to demandate the ample room cutsing for the further extension of the system; while the flouriabing condition generally of the assurance offices already established, not only proves the soundness of the principles on which they are founded, but affords a guarantee for the like success of additional establishments, having the same objects in view, and conducted with equal prudences and ability.

As lite insurance has been thus extended, various sections of the community have been induced to form their own establishments, so that all professions, and several industrial as well as religious classes, have now each their own assurance offices—adapted to the peculiar circumstances of those portions of society with which they are respectively consected, and mainly dependent on them for support.

It is, however, remarkable, that while in the metropolis alone the life assurance companies of all classes and descriptions exceed 100 in number, with engagements computed at upwards of £115,000,000 sterling, those companies do not comprise one emanating from or connected with the Massico interests, which are those of a class that has done more than any other to develope the resources and promote the extension of the community possesses no assurance associative, especially identified with its interests, it is manifest that a large void in t

MINING AND GENERAL MUTUAL LIFE ASSURANCE SOCIETY MINING AND GENERAL BUTUAL LIFE ASSURANCE SOCIETY is preposed to be established. Its formation is also called for in consequence of the working miners being either excluded from existing offices, or subjected by them to a considerably higher scale of charges in the annual premiums than experience has shown to be necessary. The mining interests possess more than ordinary power and influence to promote all the objects which such an institution is calculated to effect; and, in submitting the present scheme to the public, it has been determined to beas the society upon principles which cannot fail to command its countenance and support.

1. By the formation of a fund, to the extent of 1-10th of the profits of the association, to be called the "Miners' Widows and Orphans' Fund," for securing annuities for old age to members insured for the whole term of life, and for constituting a perpetual and increasing provision for deserving and distressed miners and their widows and children, and towards founding and supporting charitable institutions in connection with mining interests.

is, affording inducements and facilities to working miners to make a provide infirmities of old age, sickness, or incapacity for labour, and by assuring at death, on a self-supporting and asfe system, free from the objections us against sick societies and mine clubs.

THE CONSTITUTION OF THE SOCIETY.

1. The society to be established on the principle of mutual assurance, as being the most economical, and the best and most legitimate mode of individual protection.

3. The interests of the assured to be at the outset protected by a temporary guarantee fund of £100,000, divided into 5000 siarces, of £28 cach, deposit £29 per share. The experience of well-established offices justifies the expectation that not more than £2 per share will be required to be paid up. On the capital advanced, the shareholders to receive interest at the rate of £2 per cent. per annum; and the capital to be paid off when the shareholders proportion of the net profits amounts to a sum equal to that originally advanced, and £100 per cent., by way of conus.

3. The affairs of the society to be investigated, and the profits ascertained and apportanced at the end of every five years; and, after such a sum shall have been reserved as shall be deemed amply sufficient to meet all contingencies, and to enter into the average of succeeding years, the profits to be divided as follows:—

Four-afiths of the profits to be apportioned among the members assured for the whole term of life, on the participating scale of premiurss, and the amount may either be added to the policy, to increase the sum insured, or may go in reduction of future premiums, at the option of the assured.

Of the remaining one-fifth of the profits, one moiety (or the 1-10th of the entire profits) to be appropriated to the "Miners' Fund," and the residue to be invested as an accumulating fund for the extinction of the puld-up capital; and as soon as such found, the shareholders to be paid off, and thenesforward the whole of the profits, except the 1-10th appropriated to the "Miners' Fund," to be divided among the assured.

THE BUSINESS OF THE SOCIETY.

1. Assurances on single lives, on joint lives, and on survivorships.

2. Assurances on the lives of persons about to proceed to, or reside in, foreign climates.

3. Tables framed for non-participating policies on a lower scale of premiums.

4. Tables on original data, computed for the express purpose of enabling miners and there to insure against sickness or old age, as well as to secure a provision for their faillies at death.

5. Immediate unquities to be granted, and deferred annuities to be secured, to commence at any specified age.

6. Reversionary and survivorship annuities to be granted.

7. Tables to be constructed, to enable the operative miner to secure a deferred annuity Atle and upwards for old age, and an annuity payable to his widow and children after is death.

8. Educational and other ondowmonts for children to be granted.

This is the only office identified with the interests of miners, and if they avail themelves of their own institution for the purpose of securing the vast amount of insurances
then they may effect or influence, it is obvious that its success must speedily equal that
any saturance company is the kingdom.

In order that the objects of the society may be more successfully carried out, the board
directors will be principally composed of gentlemen connected with mining and the
anufacture of metals; and it is believed that the efforts of the members of this numeris and influential class in the establishment of the "Mining and General Mutual Lile
saurance Society," will open an extensive field for operation, and prove advantageous
the mining interests.

It is considered that the shares of this society will be regarded as offering a desirable

a the mining interests.

It is considered that the shares of this society will be regarded as offering a desirable arestment to a limited amount, abstracted from all inducements to speculation; and he promoters look to the circulation of this prospectus through private channels for severing that support which they have been in various quarters encouraged to expect. In the allotment of the shares, preference will be given to applicants connected with aling interests, and a due proportion will be reserved for medical men and mine agents upporting the interests of the company.

On the deposit of £5 per share, 2s. only will be required to be paid on taking up the bares, and the remainder upon the execution of the Deed of Settlement.

s, and the remainder upon the execution of the Deed of Settlement.
philoation for shares, in the form annexed, addressed to the provisional directo
be forwarded to—
Mesars, Watson and Cuel, mine share agents, St. Michael's-alley, Cornhill.
Mr. Jan es Lane, mine share agent, 75, Old Broad-street, City, London.
Mr. Henry Ellery, Truro.
Mr. W. C. Hennah, Listeard.
Mr. W. E. Cummins, Tavistock.
Mr. Hugh Ebrington Croker, Plymouth; or to the
Office of the Mining Journal, 26, Ficet-street, London.

FORM OF APPLICATION FOR SHARES.

To the Provisional Directors of the Mining and General Mutual Life Assurance Society.

Gentlemen,—Please to allot me shares, of £20 each, in the above society; and hereby undertake—provided that I approve of the board of direction when formed—to ceept the same, or such less number as may be allotted to me, and to pay the deposit nereon, and to execute the Deed of Settlement, and all other necessary documents, when equired.

Dated this day of 1848.

Mame in full

Profession or business

Address.

PROFESSIONAL LIFE ASSURANCE COMPANY, connecting the Clerical, Legal, Military, Naval, and Medical professions, and bedding out advantages to the public not hitherto offered by any similar institution. ried - Capital £250,000.

Established upon the mixed, mutual, and proprietary principle.

Solves essentially moderate. Every description of policy granted. Immediate, surveilly, and deferred annutities; and endowments to widows, children, and others to be to the control of the control o

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respectuses, with full details, may be had at the office.—Applications requestions of becoming agents.

EDWARD BAYLIS, Actuary and Serffices, 76, Cheapside, London.

DATENT IMPROVEMENTS IN CHRONOMETERS,
WATCHES, AND CLOCKS...E. J. DENT, 93, Strand, and 33, Occupant-street,
sain and clock maker, By APPOINTMENT, to the Queen and his Royal Highness
dates Albert, begs to acquisint the public, that the manufacture of his chronometers,
schools, and clocks, its accuracy by three asparate patents, respectively granted in 1836,
th, 1848. Silver is rar watches, fewelled in four holes, 6, 50, such 1 in gold cases, from
5 to 210 extra. Gold horizontal watches, with gold disls, from 8 gs. to 12 gs. cack...
DRITTS PATENT DIFALEDOSCOPE, or mardian instrument, is now trady for delivery.

Little and the control of the cont

INING AND GENERAL MUTUAL LIFE ASSURANCE | EASTERN ARCHIPELAGO COMPANY.—Incorporated by

PASTERN ARCHIPELAGO COMPANY.—Incorporated by ROVAL CHARFER.
Capital £700,000, in 2000 shares, of £100 each.
CHARMAN—JOHN MACGIE GOB, Eq., M.P.

BANKERS—Messer, Glyn and Co.
The objects of this company are to carry on MINING, AGRICULTURAL and TRAD-ING OPERATIONS is the EASTERN ARCHIPELAGO, and tiss ACQUIRING and DISTORMED of lands in the sisand of LABUAN, and the parts adjacent (HORNEO)—a region abscaling in mineral wealth—most fertile in all the valuable tropted productions, and very happily situate for the purposes of commerce. The working of the coal mines in those districts, so highly important to the permotion and extension of efficient and economical steam communication with our eastern possessions, will form a main feature in this company's operations.

By virtue of the company's charter, each shareholder's responsibility is limited to the amount of his subscription; and the capital may be increased to £400,000, and further increased with the consent of the Board of Trade.

A detailed prospectus, with a form of application for shares, and an inspection of a copy

A detailed prospectus, with a form of application for shares, and an inspection of a copy the charter, may be obtained at Messra. GLEDSTANES & CO.'s, 3, White Lion-court, Cornhill.

EASTERN ARCHIPELAGO COMPANY.—APPLICATIONS FOR SHARES can be RECEIVED till TUESDAY, the 13th June only
when the shares will be allotted.

3. White Lien-court, Cornhill, May 31, 1848.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUITA, PENANG, SINGAPORE, and HONG-KONG.

THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY THE PERINSULAR AND UNIENTAL SIEMS ANY REAL CONTRACT OF THE PROOF PORTS by their steamers—starting from Southampton on the 20th; and from Suez on or about the 10th of every month.

For rates of pussage-money, plans of the steamers, and to secure passages, apply at the company's offices, No. 122, Leadenhall-street, London.

NOTICE TO SHIPPERS OF GOODS AND PARCELS per PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANYS STEAMERS to INDIA and CHINA.—GOODS and PARCELS, sent direct to the company's Parcel-office, at or before 6 r.m. on the 17th of each month, are FORWARDED at less cost to the shipper than when sent through any intermediate channel. Cases must not exceed 112 lbs. weight each for Aden, Ceylon, Madras, Calcutta, and China; and 40 lbs. each case for Bombay. No package for India and China cap, under any circumstances, be shipped at Southampton, unless it be cleared through the Custom-house, and placed alongside the steamer by noon on the 19th of each month. Detailed particulars can be obtained on personal application or by writing.—Parcel Department, 122, Leaden-hall-street, May 18, 1849.

CALEDONIAN RAILWAY COMPANY—LOANS ON DEBENTURES.—TENDERS OF LOANS ON DEBENTURE BONDS are now RECRIVED in sums of not less than £500, for any number of years not exceeding five. Interest to be at the rate of 5 per cent. per annum, payable half-yearly, in London, Edgiburgh, Glasgow, or in any country bank.

Tenders to be addressed to this office, giving full name and address of lender.—Farties may also communicate with Messrs. Foster and Braithwaite, 68, Old Broad-street, London. By order.

Caledonian Railway Office, Edinburgh, Feb. 23, 1848.

CONDONDERRY MINING COMPANY OF NOVA SCOTIA.—Capital, £80,000, in 2000 shares, of £40 cach.
It is provided that 21 days' Notice be given of each call, and that no call exceed 20 per ent., and that enecessive calls be not made at less than six months, and that the aggreate amount of calls, made in any one year, do not exceed 40 per cent.

The following directors have been named in the Act (together with other persons its directors have been named in the Act (together with other persons its directors have been named in the Act (together with other persons its director), and they are to continue in office until superseded, or string, by a vote of the London shareholders—viz.:

The Hon. W. A. BLACK,
The Hon. J. E. FAIRBANKS,
Members of the Lagislative Council.
The Hon. ALEK, KEITH,
J. W. JOHNSTON, Esq. Advocate-General.

This company has been formed for the purpose of WORKING a MINE, recently severed, of 1RON ORE of superior quality and richness, situated in the province of Neotia, about 70 miles from Halifax, and about seven miles from a good shipping in the Bay of Fundy.

vered, of Inter the term Halifax, and about seven miles from a good suppress pro-tile Bay of Fundy.

This extractionary deposit of specular iron ore has been surveyed by Dr. Gesner and W. Dawson, Esq., provincial geologists. Extracts from their reports are appended to o prospectus, and other unquestionable references.

the prospectus, and other unquestionable references.

"To John Ross, Esq., of Truro, Nova Scotia.

"Dana Sra,—It gives me great pleasure, in reply to your request, to express the high opinion I entertain of the talents, acquirements, sargetry, and high quadrications of Mr. J. W. Dawson, of Picton, as a mineral surveyor and geologist, of which I had an opportunity of judging during an examination, which we made together, of several parts of Nova Scotia, and, among others, the district of the felley river—to the valuable ores of which you are now directing public attention.

I may further add, that Mr. Dawson's name is now well-known to the Geological Society of London by several Macaoirs on the Geology of Nova Scotia, accompanied by maps and sections, published in their Processings and Guarterly Journal.

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TERRESTRIAL MAGNETISM:

THE GENERAL POLARITY OF MATTER, THE MERIDIONAL STRUCTURE OF
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THEIR TRANSITIONS, MOVEMENTS, AND DISLOCATIONS,

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was covered at the level of the internal ground floor with a layer of SEYSEL ASPHALTE,\* loss than half an inch thick, over which coarse sand was spread. Since the above date, no trace of damp has shown itself round the walls of the lower story, which are, for the most part, painted in oil, of a grey stoic colour. It is well known that the least moisture produces round spots, darker or lighter, on walls so painted. Yet the pavement of the sloor, resting on the soil itself, is only about 2½ inches above the external surface of the soil, and only 19½, at the utmost, above that of the sheet of water. The layer of asphalte having been broken and removed, for the purpose of inserting the sills of two doors, spots, indicating the presence of damp, have been since remarked at the base of the door-posts.

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June 15

\* It will at all times save much delay and inconvenience, if communicati rected simply To THE EDITOR. Missing Journal Office.

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